MHC-6800

SERVICE MANUAL

Canadian Model
AEP Model
UK Model

- MHC-6800 is composed of following models. As for the service manual, it is issured for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR MHC-6800

Power-Amplifier	TA-H6800N
Pre-Amplifier	TA-H6800E
TUNER/CD PLAYER	HCD-H6800
CASSETTE DECK	TC-H6800
SPEAKER SYSTEM	SS-H6800 (AEP, UK, G, IT) SS-H6800C (CND)

SPECIFICATIONS

Power requirements	Model for CND: 120V AC, 60Hz Model for AEP, G, IT: 220V—230V, 50/60Hz Model for UK: 240V, 50Hz
Power consumption	195W (system total)
Dimensions	Approx. 225×390×280mm (w/h/d) $8^{7}/_{8}\times15^{3}/_{8}\times11^{1}/_{8}$ inches) incl. projecting parts and controls
Mass	Approx. 14kg (30lb 14oz)
Supplied accessories	Remote Commander (1) (RM-S680) Sony SUM-3 (NS) batteries (2) AM loop antenna (1) FM antenna (1) AC power cord (2) Flat cord (1) Speaker cord (2) (CND model)

Design and specifications subject to change without notice.

- CND: Canadian model
- G : German model
- IT : Italian model

PARTS LIST

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-466-998-11	REMOTE COMMANDER (RM-S680)	
	1-501-369-11	ANTENNA (EXCEPT CND)	
	1-501-374-11	ANTENNA, LOOP	
⚠	1-558-834-11	CORD, POWER (CND)	
	1-558-848-11	CORD, SPEAKER (CND)	
⚠	1-575-131-11	CORD, POWER (AEP/G/IT)	
⚠	1-590-866-21	CORD, POWER (UK)	
	1-696-741-11	CORD (WITH CONNECTOR)	
⚠	1-751-207-11	CORD, POWER (CORD SET) (EXCEPT CND)	
⚠	1-751-270-11	CORD, POWER (CORD SET) (CND)	
*	3-703-713-41	STICKER, SONY SYMBOL (TC-H6800)	
	3-755-916-11	MANUAL INSTRUCTION (ENGLISH/FRENCH/SPANISH/CHINESE/DUTCH) (AEP/UK)	
	3-755-916-31	MANUAL INSTRUCTION (ENGLISH/FRENCH) (CND)	
	3-755-916-41	MANUAL INSTRUCTION (GERMAN/ITALIAN/SWEDISH/PORTUGUESE) (AEP/G/IT)	
*	4-941-548-01	LABEL, CLASS 1 (HCD-H6800) (EXCEPT CND)	
*	4-955-208-01	CUSHION (REAR) (TA-H6800N)	
*	4-955-209-01	CUSHION (FRONT) (TA-H6800N)	
*	4-955-212-11	CUSHION (SS-H6800C)	
*	4-955-213-02	CHSHION (REAR) (TA-H6800E, TC-H6800, HCD-H6800)	
*	4-955-214-01	CUSHION (FRONT) (TA-H6800E, TC-H6800, HCD-H6800)	
	4-955-381-11	COVER BATTERY (RM-S680)	
*	4-957-151-01	INDIVIDUAL CARTON (TA-H6800N, TA-H6800E, TC-H6800, HCD-H6800)	
*	4-957-153-01	INDIVIDUAL CARTON (TA-H6800N, TA-H6800E, TC-H6800)	
*	4-957-154-01	INDIVIDUAL CARTON (HCD-H6800)	
*	4-957-353-01	CUSHION (FRONT) (TA-H6800N, TA-H6800E, TC-H6800)	
*	4-957-354-01	CUSHION (REAR) (TA-H6800N, TA-H6800E, TC-H6800)	
*	4-957-355-01	CUSHION (FRONT) (HCD-H6800)	
*	4-957-356-01	CUSHION (REAR) (HCD-H6800)	
*	4-959-607-01	INDIVIDUAL CARTON (TA-H6800N, TA-H6800E, TC-H6800, HCD-H6800, SS-H6800C)	

****

MINI Hi-Fi COMPONENT SYSTEM

SONY®

English
93E04039-1
Printed in Japan

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9-957-626-12

Sony Corporation
Audio Group

Published by Audio Sector Quality Assurance Dept.

TA-H6800E

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the
Pre-Amplifier section
in FH-E9X, MHC-6800.

SPECIFICATIONS

Audio inputs	PHONO (phono jacks): sensitivity 3 mV, impedance 47 kilohms VIDEO 1 (phono jacks): sensitivity 250 mV, impedance 47 kilohms VIDEO 2/MD/DAT (phono jacks): sensitivity 250 mV, impedance 47 kilohms
Video inputs	VIDEO 1 (phono jacks): 1 Vp-p/75 ohms unbalanced, sync negative VIDEO 2/MD/DAT (phono jacks): 1 Vp-p/75 ohms unbalanced, sync negative
Audio outputs	VIDEO 1 (phono jacks): voltage 250 mV impedance 2 kilohms VIDEO 2/MD/DAT (phono jacks): voltage 250 mV impedance 2 kilohms
Video outputs	VIDEO 1 (phono jacks): voltage 250 mV impedance 2 kilohms MONITOR OUT (phono jacks): voltage 250 mV impedance 2 kilohms

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

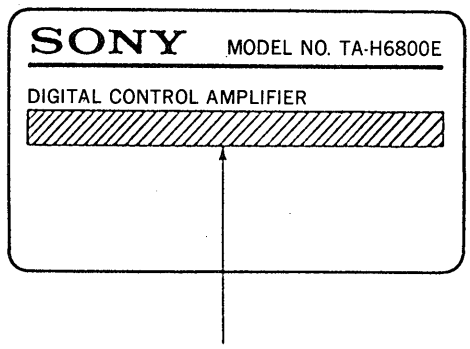
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

DIGITAL CONTROL AMPLIFIER

SONY®

MODEL IDENTIFICATION

—Model Number Label—



CND model : AC: 120V 60Hz
AEP model : AC: 220—230V~50/60Hz 45W
Italian model : AC: 220—230V~50Hz 45W
German model: SYSTEM MHC-6800
AC: 220—230V~50Hz 45W
UK model : AC: 240V~50Hz
E, EA, JE, AUS,
MY, SP model : AC: 110—120/220—240V~50/60Hz 45W

• Abbreviations
CND: Canadian model
EA : Saudi Arabia model
JE : Tourist model
AUS: Australian model
MY : Malaysia model
SP : Singapore model

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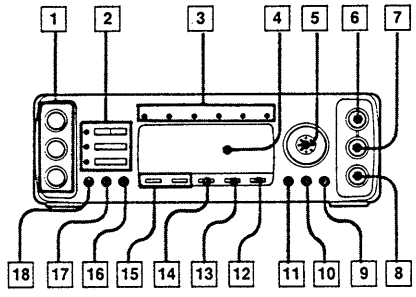
SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION

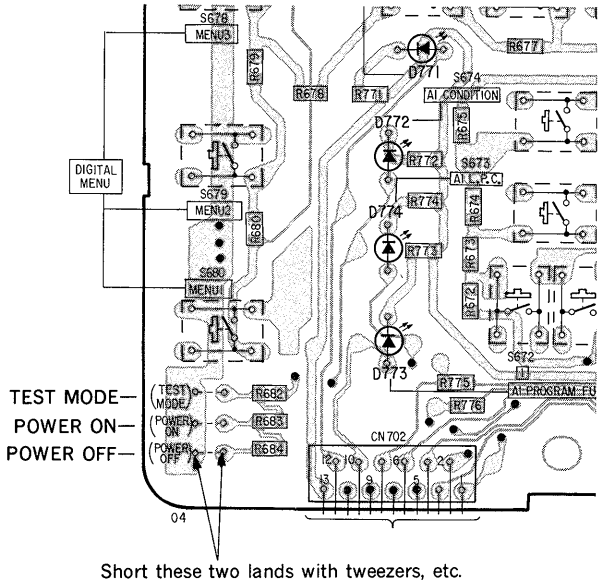


1 DIGITAL MENU (MENU 1/2/3) buttons (106)
2 AI operation buttons and indicators
AI PROGRAM 1/2 buttons and indicator (130)
AI L.P.C. button and indicator (128)
AI CONDITION button and indicator (124)
3 Function indicators (132)
4 Display window
5 CONTROLLER
6 FUNCTION AUDIO selector (22, 132)
7 FUNCTION VIDEO selector (22, 132)
8 DIRECT button (104)
9 DDS (Digital Dynamic Sound) button (118)
10 DPS (Digital Presence Surround) button (116)
11 DPE (Digital Parametric Equalizer) button (114)
12 RELAX button (144)
13 SLEEP timer button (144)
14 REC TIMER button (138)
15 CLOCK SET buttons (24) /TIMER 1, 2 buttons (134)
16 DISPLAY button (112)
17 USER MEMORY button (120, 122)
18 KARAOKE PON button and indicator (148)

SECTION 2
SERVICE NOTES

2-1. SERVICE MODE

When the test lands on the panel board are shorted, this set will enter the Test Mode. This allows you to test the fluorescent indicator tube and the LED display and to turn power ON/OFF.



※ The Test Mode cannot be entered unless the POWER is turned ON.

(1) POWER ON

In this set, the control (AU BUS) of the power amplifier TA-H6800N is used to turn the power ON/OFF. Without this power amplifier, even if 100Vac is input, the set will be always in the STANDBY (POWER OFF) state and any test other than clock operation check cannot be performed. Also, any power supply to the AUDIO system (A ±10V, DSP+5V) is OFF and so any energization check by sound input is not allowed. Therefore, the POWER ON test lands should be used to turn the power ON before entering repair.

(2) POWER OFF

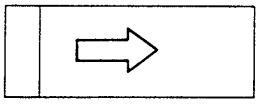
This changes from POWER ON to STANDBY state. The fluorescent indicator tube display will be of half brightness to display the clock.

(3) TEST MODE

In the POWER ON state, when the Test Mode lands are shorted once :

① All LED indicators are totally lit. (VIDEO 1 and VIDEO 2/MD/DAT are lit orange due to simultaneous illumination of red and green.)

② One vertical line appears on the fluorescent indicator tube surface and moves from left to right. At this time, make sure that this vertical line is not partially thicker.



③ The fluorescent indicator tube display is totally lit and this operation is stopped. Make sure that the display is illuminating equally without unevenness.

Each time the Test Mode land are shorted, the following operations are performed in turn :

Dolby sound in DSP menu is selected and

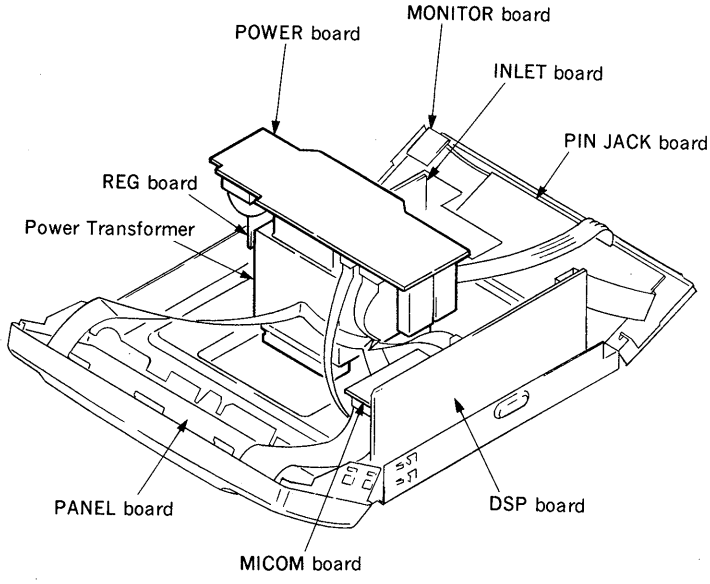
④ The parametric equalizer is set to 3dB up at 1kHz.

⑤ The parametric equalizer is set to 6dB up at 1kHz.

⑥ The set returns to the STANDBY state and the clock displays "0 : 00" (Cold Start). All the parameters including clock will be reset.

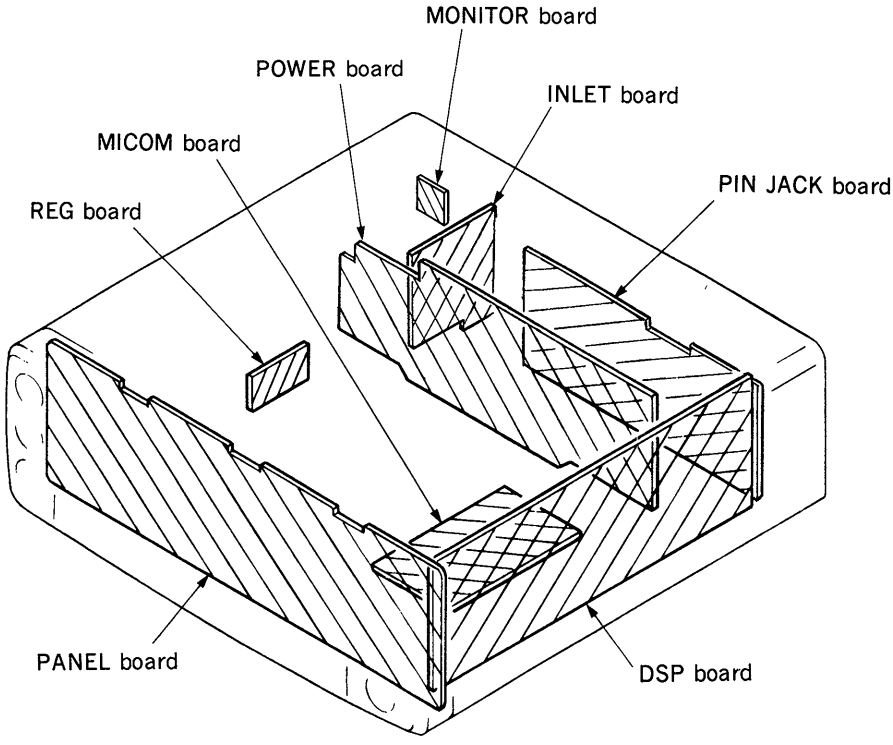
2-2. SERVICE POSITION

For this set, with the front and rear panels open, remove 4 screws securing the power transformer and 1 screw securing the AC inlet. Then, by facing the power transformer down as shown below, all the boards can be repaired.

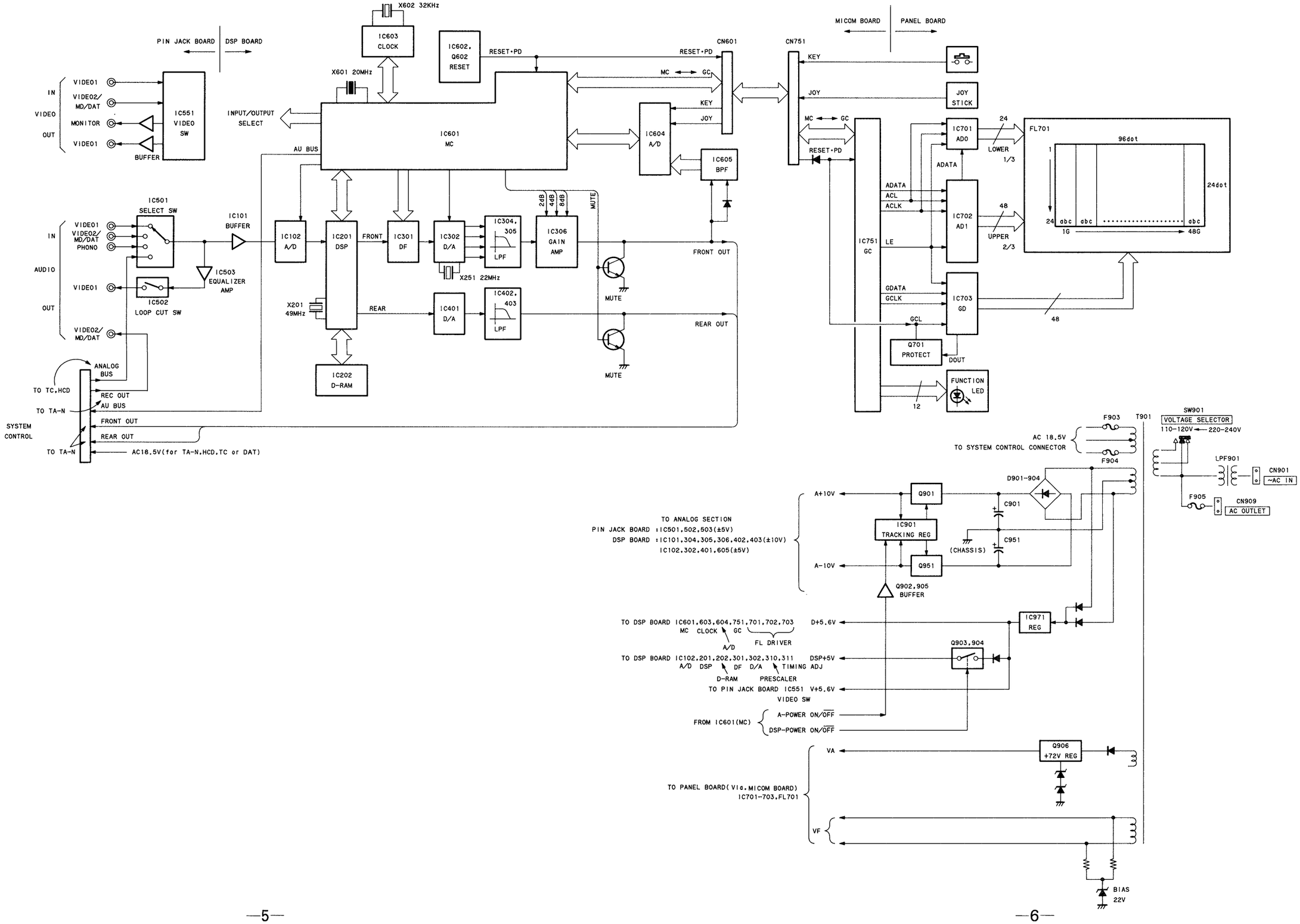


SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

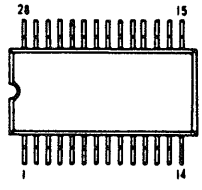


3-2. BLOCK DIAGRAMS



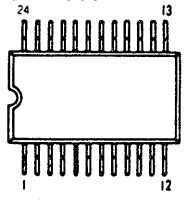
3-3. SEMICONDUCTOR LEAD LAYOUTS

CS5339-KS
CXD2561BM



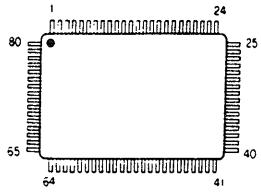
(TOP VIEW)

CXD2560M

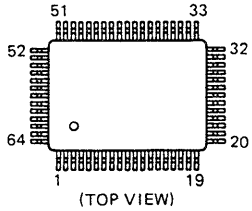


(TOP VIEW)

CXD2705AQ

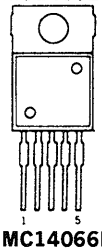


HD6433258A40F
HD6433258-MC



(TOP VIEW)

MC14052BF



MC14066BF
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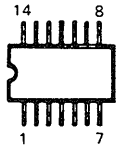
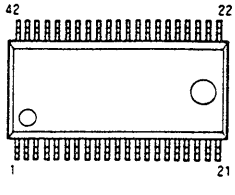


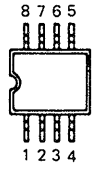
(TOP VIEW)

M5M411664TP-6



(TOP VIEW)

M51953BFP



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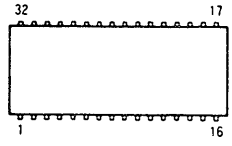
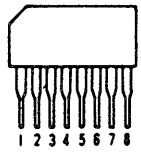
M5218AFP



M5230L-A



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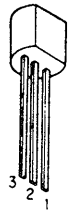

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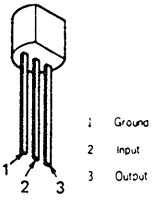

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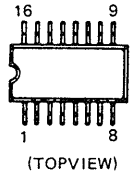
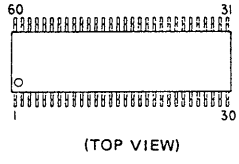
μPD6376



(TOPVIEW)

SN755705



(TOP VIEW)

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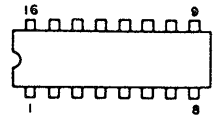
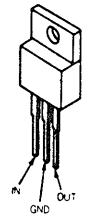


(TOP VIEW)

TA7805S



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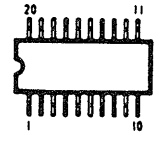

(TOPVIEW)

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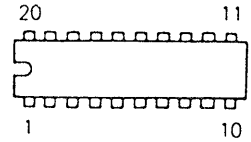

(TOP VIEW)

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2SA1344
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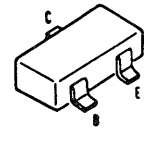
2SC3396
2SC3398
2SC3624A-L15



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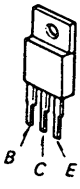

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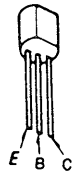

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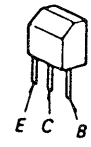

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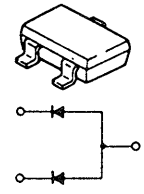

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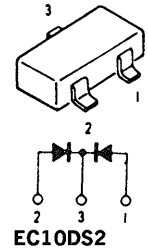

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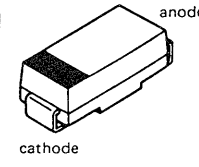
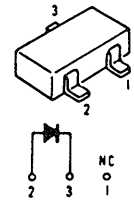
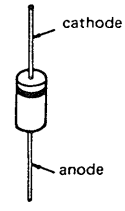
EC10QS-04



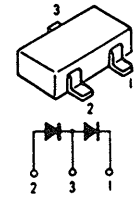
UZM-36Z
UZM5.1B



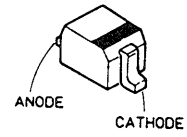
UZP-22B



1SS226



1SS352



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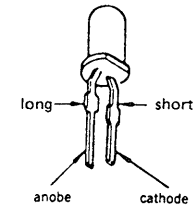
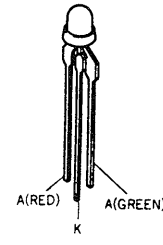


SML1216W



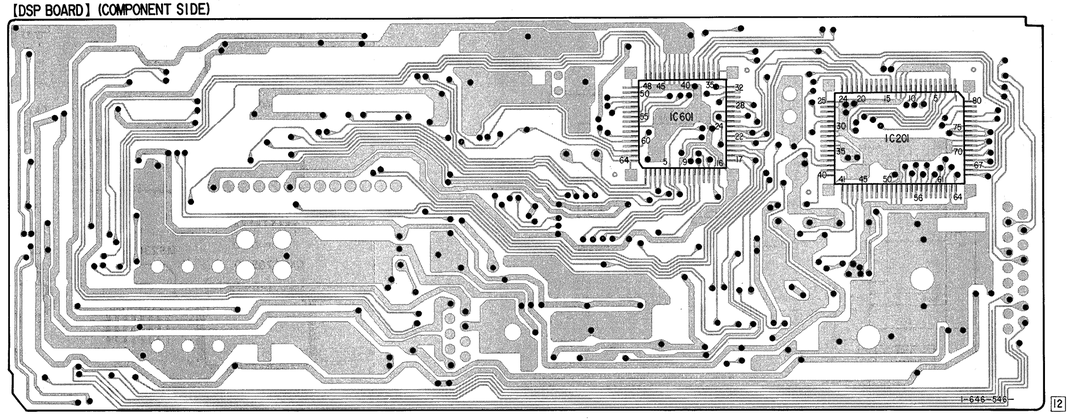
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D105	E-9	IC503	H-16
D501	E-16	IC551	F-14
D502	E-16	IC601	B-6
D503	G-16	IC602	G-5
D601	H-6	IC603	H-6
D602	H-5	IC604	G-6
D603	G-5	IC605	H-4
D604	G-5		
D605	G-3	Q301	F-3
D607	H-3	Q302	F-2
D608	H-4	Q303	F-2
		Q304	E-3
IC101	F-9	Q305	E-2
IC102	F-8	Q306	E-2
IC103	E-8	Q307	F-1
IC104	E-8	Q308	F-1
IC201	B-8	Q309	F-2
IC202	G-8	Q310	F-1
IC301	F-7	Q313	E-2
IC302	F-6	Q314	E-1
IC303	G-4	Q401	E-1
IC304	F-4	Q402	E-1
IC305	F-3	Q501	E-17
IC306	F-3	Q503	F-13
IC310	F-7	Q504	F-13
IC311	G-5	Q505	F-16
IC401	G-2	Q506	G-16
IC402	G-2	Q551	H-10
IC403	G-1	Q553	G-10
IC501	F-15	Q601	G-8
IC502	H-15	Q602	H-5

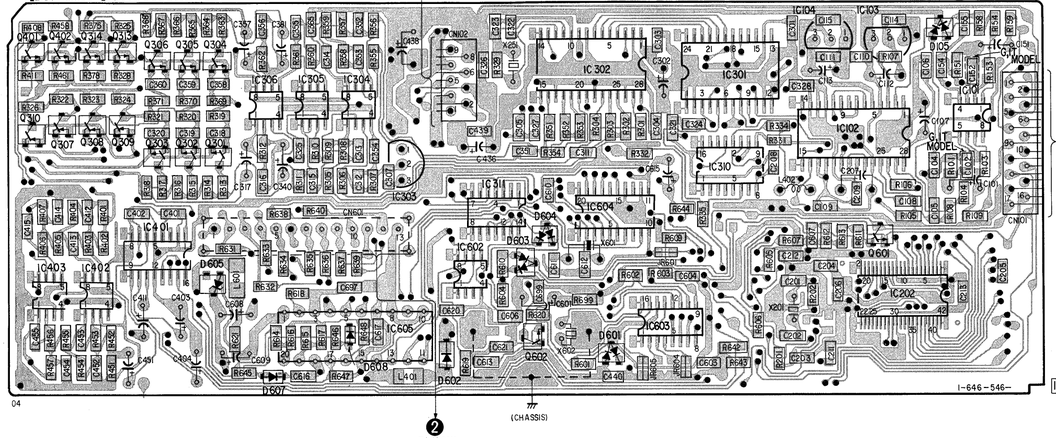
Note:
- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side. (PIN JACK Board)
- Abbreviations
  G : German model
  IT : Italian model

3-4. PRINTED WIRING BOARDS—DSP/PIN JACK SECTION— • Refer to page 7 for Semiconductor Lead Layouts.

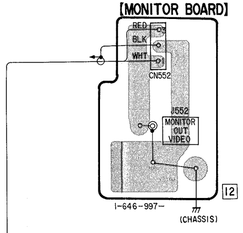
[DSP BOARD] (COMPONENT SIDE)



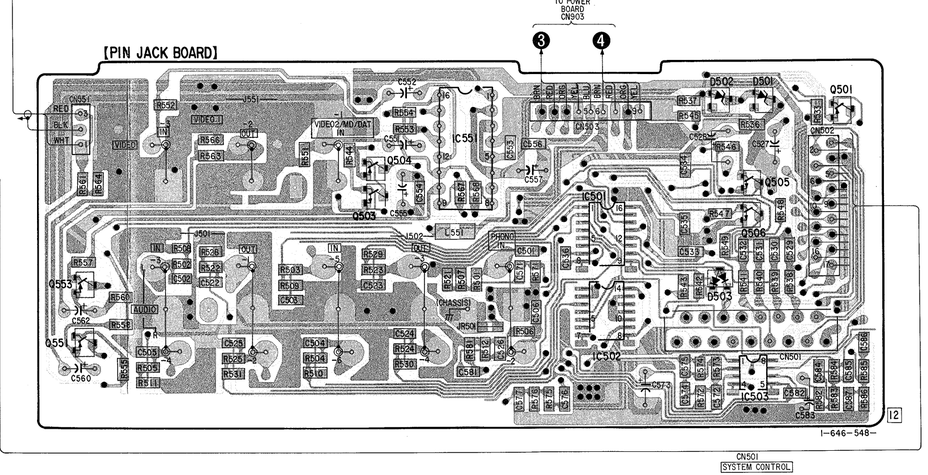
[DSP BOARD] (CONDUCTOR SIDE)



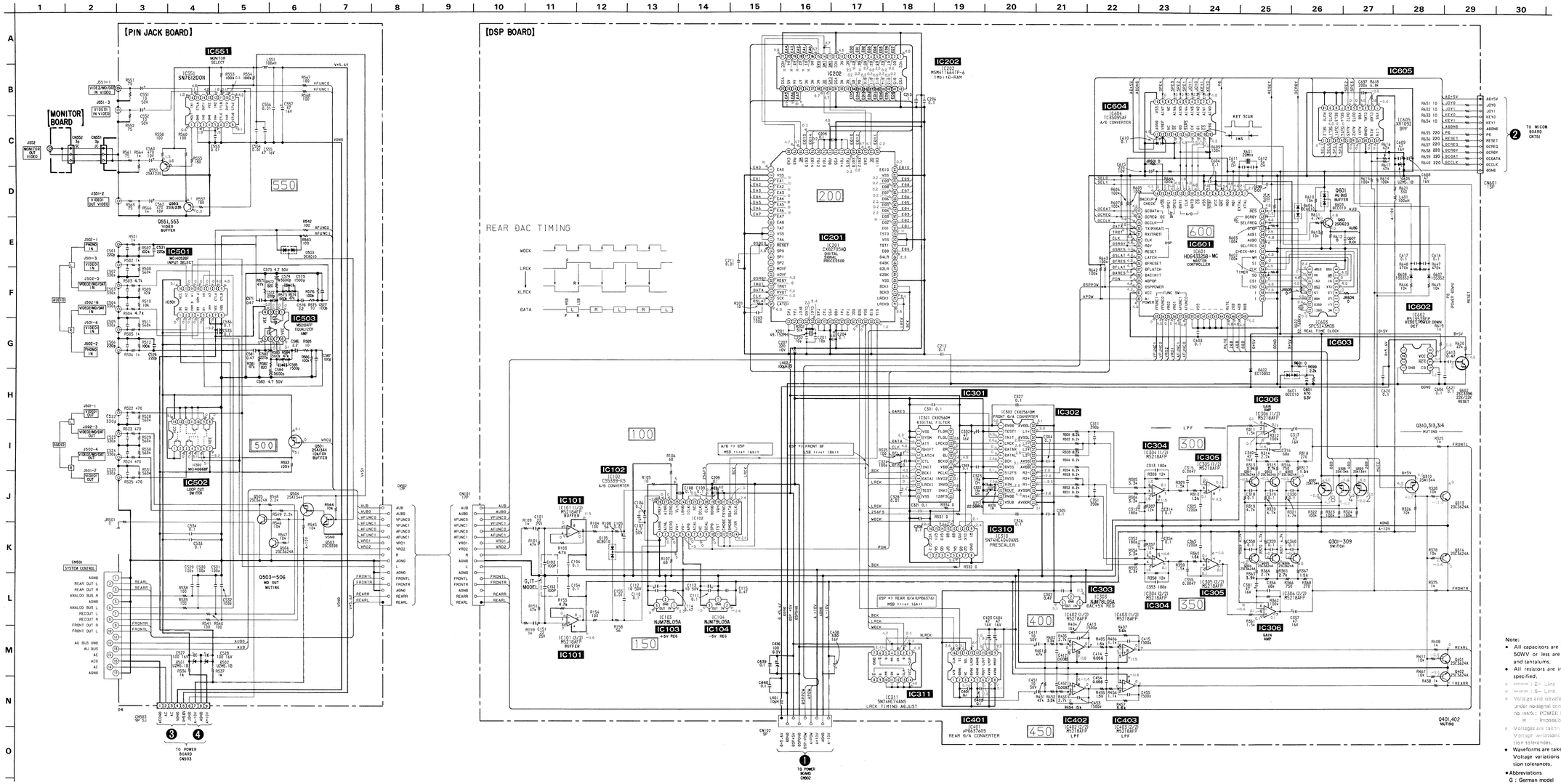
[MONITOR BOARD]



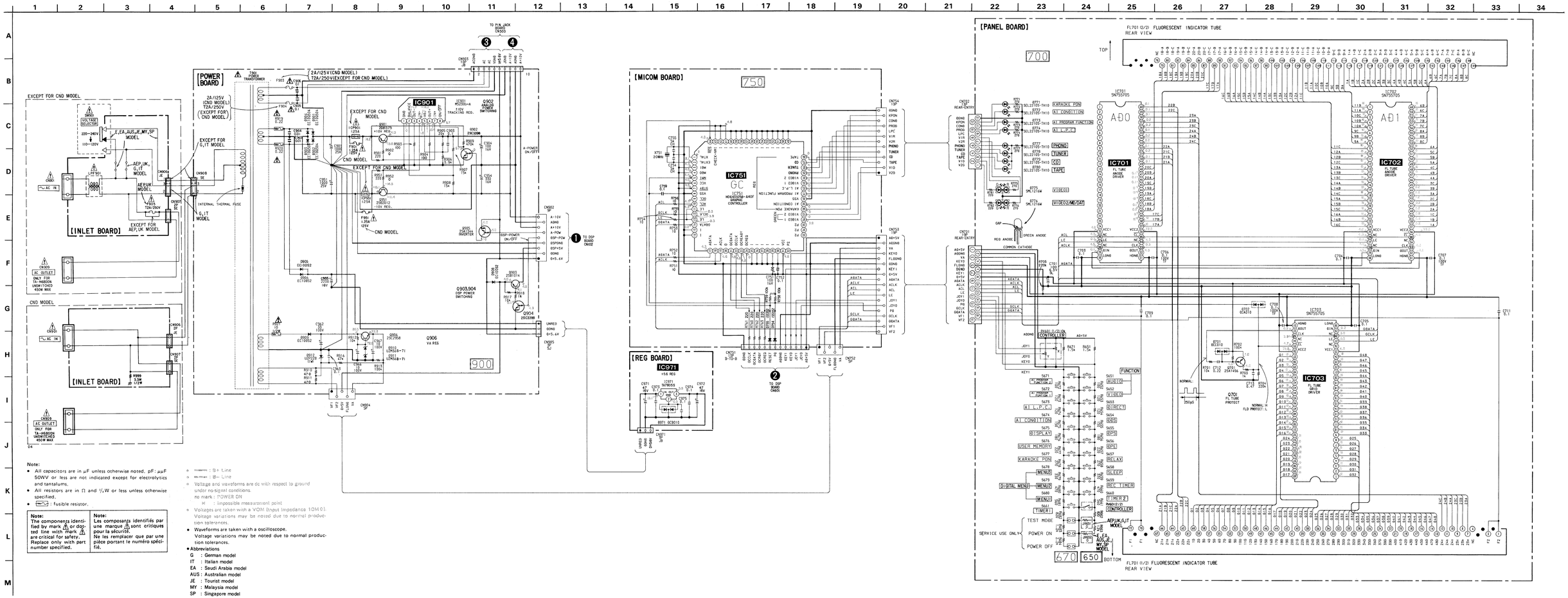
[PIN JACK BOARD]



3-5. SCHEMATIC DIAGRAM—DSP/PIN JACK SECTION—



3-6. SCHEMATIC DIAGRAM—POWER/MICOM/PANEL SECTION—

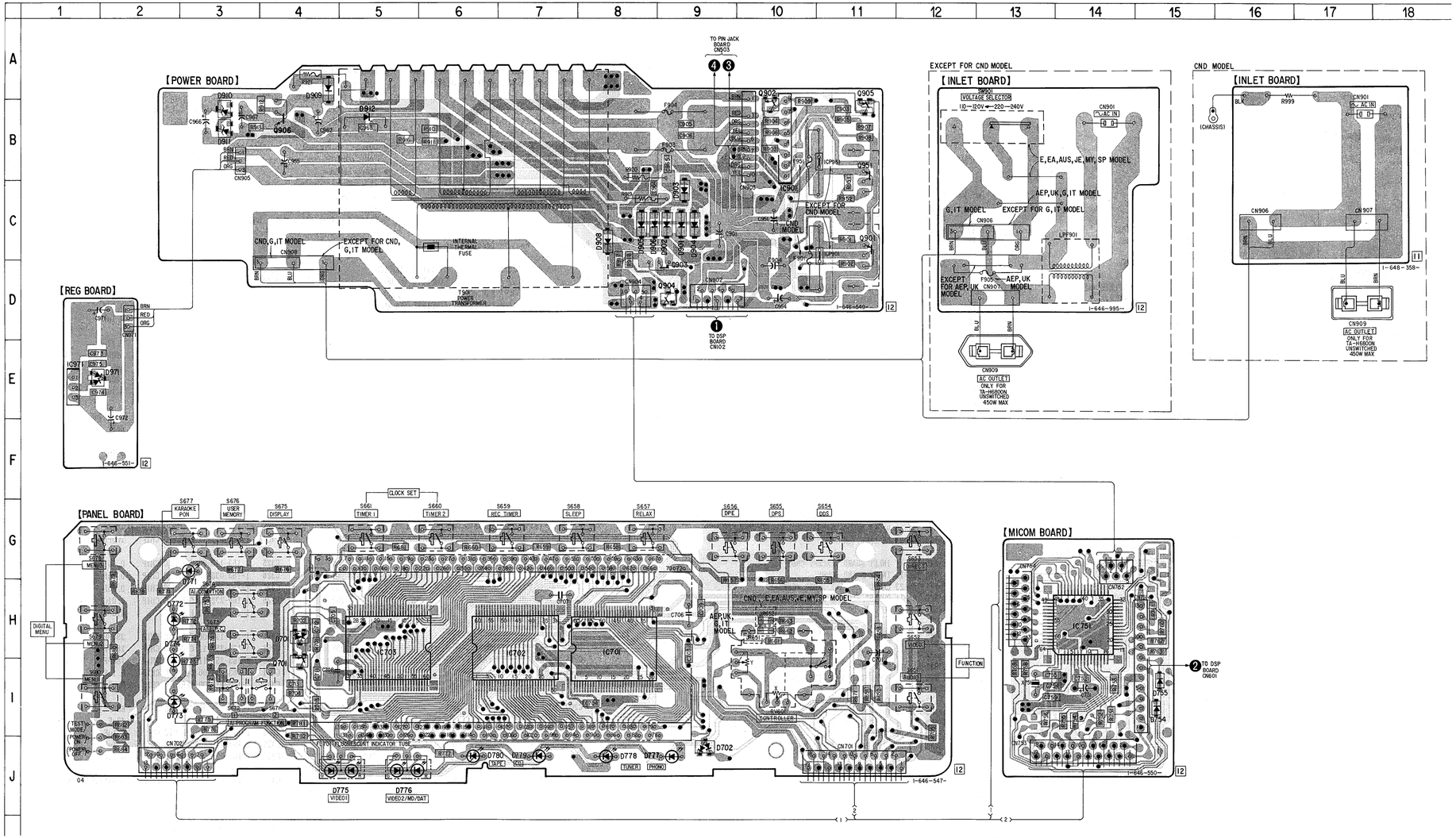


Note:
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : POWER ON
  M : impossible measurement point
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Abbreviations
  G : German model
  IT : Italian model
  EA : Saudi Arabia model
  AUS : Australian model
  JE : Tourist model
  MY : Malaysia model
  SP : Singapore model
  CND: Canadian model

3-7. PRINTED WIRING BOARDS—POWER/MICON/PANEL SECTION— • Refer to page 7 for Semiconductor Lead Layouts.



● **Semiconductor Location**

Ref. No.	Location
D701	H-4
D702	J-9
D754	I-15
D755	I-15
D771	G-3
D772	H-2
D773	I-2
D774	H-2
D775	J-4
D776	J-5
D777	J-8
D778	J-8
D779	J-7
D780	J-6
D901	C-9
D902	C-9
D903	C-9
D904	C-9
D905	C-8
D906	C-8
D908	C-8
D909	A-4
D910	B-3
D911	B-3
D912	B-5
D971	E-1
IC701	H-8
IC702	H-7
IC703	H-5
IC751	H-14
IC901	C-10
IC971	E-1
Q701	I-4
Q901	C-11
Q902	A-10
Q903	D-9
Q904	D-9
Q905	A-11
Q906	B-4
Q951	B-11

Note:

- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

● Abbreviations

G : German model
IT : Italian model
EA : Saudi Arabia model
AUS : Australian model
JE : Tourist model
MY : Malaysia model
SP : Singapore model
CND : Canadian model

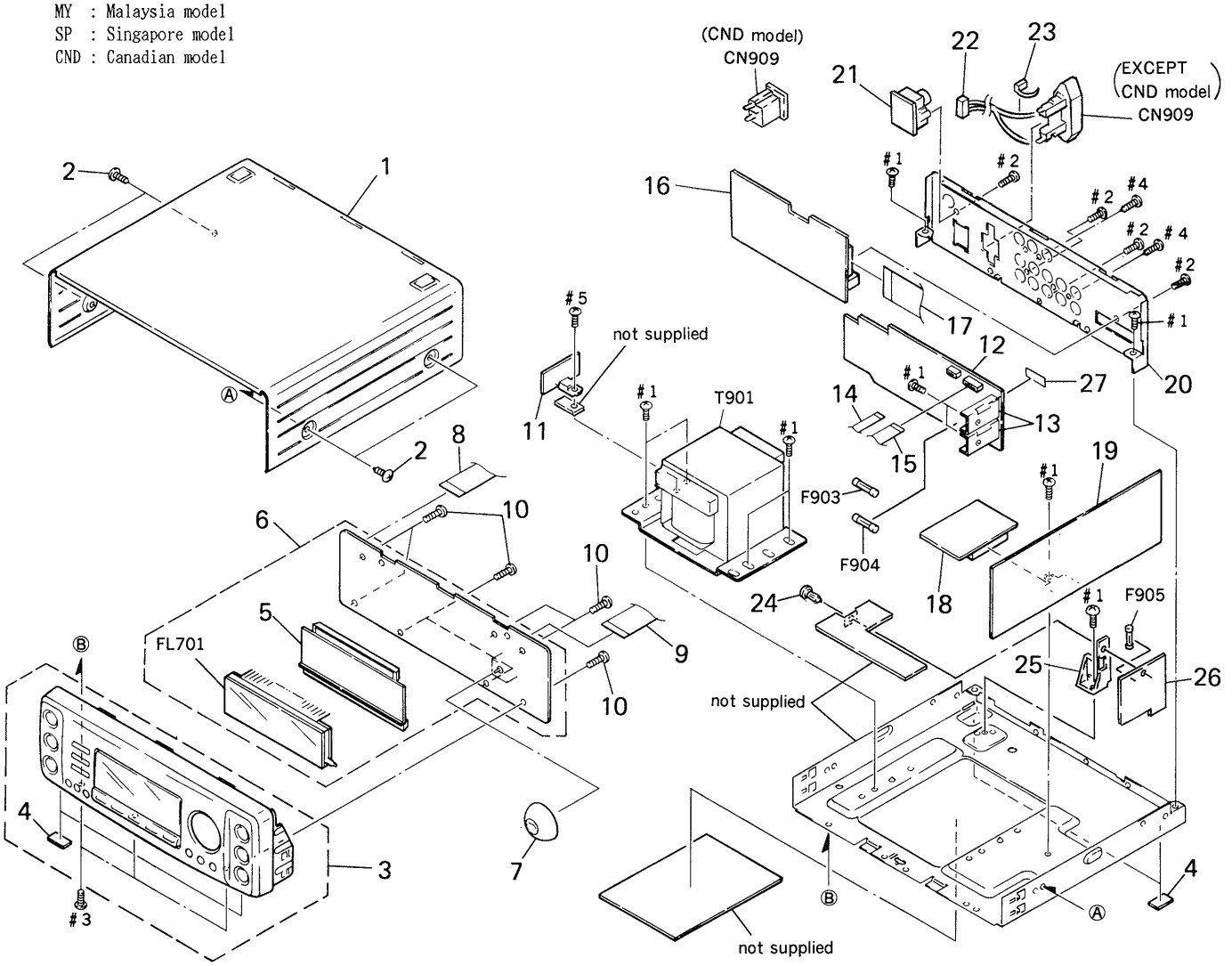
SECTION 4
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviations
  JE : Tourist model
  G : German model
  IT : Italian model
  EA : Saudi Arabia model
  AUS : Australian model
  MY : Malaysia model
  SP : Singapore model
  CND : Canadian model



Ref. No.	Part No.	Description	Remark
* 1	4-954-198-41	CASE	
2	3-363-099-21	SCREW (CASE 3 TP2)	
3	X-4943-256-1	PANEL ASSY, FRONT	
4	4-930-336-21	FOOT (FELT)	
* 5	4-954-237-01	HOLDER (FL TUBE)	
* 6	A-4360-026-A	PANEL BOARD, COMPLETE (AEP, UK)	
* 6	A-4360-292-A	PANEL BOARD, COMPLETE (E, JE)	
* 6	A-4360-301-A	PANEL BOARD, COMPLETE (G, IT)	
* 6	A-4360-319-A	PANEL BOARD, COMPLETE (EA, AUS)	
* 6	A-4360-328-A	PANEL BOARD, COMPLETE (MY, SP)	
* 6	A-4360-936-A	PANEL BOARD, COMPLETE (CND)	
7	X-3365-653-1	KNOB (J/S) ASSY	
8	1-696-781-11	WIRE (FLAT TYPE) (13 CORE)	
9	1-696-780-11	WIRE (FLAT TYPE) (19 CORE)	
10	4-951-620-01	SCREW +BVTP 2.6X8	
* 11	1-646-551-11	REG BOARD	
* 12	A-4360-028-A	POWER BOARD, COMPLETE (AEP, UK)	
* 12	A-4360-294-A	POWER BOARD, COMPLETE (E, JE)	
* 12	A-4360-303-A	POWER BOARD, COMPLETE (G, IT)	
* 12	A-4360-321-A	POWER BOARD, COMPLETE (EA, AUS)	
* 12	A-4360-330-A	POWER BOARD, COMPLETE (MY, SP)	
* 12	A-4360-938-A	POWER BOARD, COMPLETE (CND)	
* 13	3-309-144-21	HEAT SINK	
14	1-590-031-11	WIRE (FLAT TYPE) (5 CORE)	
15	1-590-241-11	WIRE (FLAT TYPE) (9 CORE)	
* 16	A-4360-027-A	PIN JACK BOARD, COMPLETE (AEP, UK)	
* 16	A-4360-293-A	PIN JACK BOARD, COMPLETE (E, JE)	
* 16	A-4360-302-A	PIN JACK BOARD, COMPLETE (G, IT)	
* 16	A-4360-320-A	PIN JACK BOARD, COMPLETE (EA, AUS)	
* 16	A-4360-329-A	PIN JACK BOARD, COMPLETE (MY, SP)	
* 16	A-4360-937-A	PIN JACK BOARD, COMPLETE (CND)	
17	1-575-733-11	WIRE (FLAT TYPE) (17 CORE)	

Ref. No.	Part No.	Description	Remark
* 18	A-4360-029-A	MICOM BOARD, COMPLETE (AEP, UK)	
* 18	A-4360-295-A	MICOM BOARD, COMPLETE (E, JE)	
* 18	A-4360-306-A	MICOM BOARD, COMPLETE (G, IT)	
* 18	A-4360-322-A	MICOM BOARD, COMPLETE (EA, AUS)	
* 18	A-4360-331-A	MICOM BOARD, COMPLETE (MY, SP)	
* 18	A-4360-939-A	MICOM BOARD, COMPLETE (CND)	
* 19	A-4360-025-A	DSP BOARD, COMPLETE (AEP, UK)	
* 19	A-4360-291-A	DSP BOARD, COMPLETE (E, JE)	
* 19	A-4360-300-A	DSP BOARD, COMPLETE (G, IT)	
* 19	A-4360-318-A	DSP BOARD, COMPLETE (EA, AUS)	
* 19	A-4360-327-A	DSP BOARD, COMPLETE (MY, SP)	
* 19	A-4360-934-A	DSP BOARD, COMPLETE (CND)	
* 20	4-954-240-31	PANEL, BACK (AEP)	
* 20	4-954-240-41	PANEL, BACK (G)	
* 20	4-954-240-51	PANEL, BACK (UK)	
* 20	4-954-240-61	PANEL, BACK (IT)	
* 20	4-954-240-71	PANEL, BACK (E, EA, AUS, JE)	
* 20	4-954-240-81	PANEL, BACK (MY)	
* 20	4-954-240-91	PANEL, BACK (SP)	
* 20	4-958-082-02	PANEL, BACK (CND)	
* 21	1-646-997-11	MONITOR BOARD	
22	1-751-216-31	LEAD (WITH CONNECTOR) (2 CORE)	
23	3-655-653-01	BAND (TAITON), BINDING	
24	4-812-134-00	RIVET NYLON, 3.5	
* 25	4-954-242-01	BRACKET (IN)	
* 26	1-646-995-11	INLET BOARD (EXCEPT CND)	
* 26	1-648-358-11	INLET BOARD (CND)	
* 27	3-701-946-23	LABEL (2A125V), FUSE (CND)	
⚠CN909	1-526-794-11	OUTLET, AC (AC OUTLET) (EXCEPT CND)	
⚠CN909	1-526-882-00	OUTLET, AC (AC OUTLET) (CND)	
⚠F903	1-532-203-00	FUSE, TIME-LAG (T2A/250V) (EXCEPT CND)	
⚠F903	1-532-743-11	FUSE, GLASS TUBE (2A/125V) (CND)	
⚠F904	1-532-203-00	FUSE, TIME-LAG (T2A/250V) (EXCEPT CND)	
⚠F904	1-532-743-11	FUSE, GLASS TUBE (2A/125V) (CND)	
⚠F905	1-532-203-00	FUSE, TIME-LAG (T2A/250V) (AEP, UK)	
FL701	1-517-110-11	INDICATOR TUBE, FLUORESCENT	
⚠T901	1-423-541-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T901	1-423-542-11	TRANSFORMER, POWER (E, EA, AUS, JE, MY, SP)	
⚠T901	1-423-561-11	TRANSFORMER, POWER (UK)	
⚠T901	1-423-708-11	TRANSFORMER, POWER (CND)	

SECTION 5
ELECTRICAL PARTS LIST

DSP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

- Abbreviations
  JE : Tourist model AUS : Australian model
  G : German model MY : Malaysia model
  IT : Italian model SP : Singapore model
  EA : Saudi Arabia model CND : Canadian model

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	A-4360-025-A	DSP BOARD, COMPLETE (AEP, UK)			
*	A-4360-291-A	DSP BOARD, COMPLETE (E, JE)			
*	A-4360-300-A	DSP BOARD, COMPLETE (G, IT)			
*	A-4360-318-A	DSP BOARD, COMPLETE (EA, AUS)			
*	A-4360-327-A	DSP BOARD, COMPLETE (MY, SP)			
*	A-4360-934-A	DSP BOARD, COMPLETE (CND)			
		**********			
		< CAPACITOR >			
C101	1-126-049-11	ELECT	22uF	20%	25V
C102	1-163-251-11	CERAMIC CHIP (G, IT)	100PF	5%	50V
C104	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C105	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C106	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C107	1-126-163-11	ELECT	4.7uF	20%	50V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C111	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C112	1-126-059-11	ELECT	10uF	20%	50V
C113	1-126-059-11	ELECT	10uF	20%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C151	1-126-049-11	ELECT	22uF	20%	25V
C152	1-163-251-11	CERAMIC CHIP (G, IT)	100PF	5%	50V
C154	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C155	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C201	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C202	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C203	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C204	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C205	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C206	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C207	1-126-101-11	ELECT	100uF	20%	16V
C208	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C209	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C211	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C212	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C213	1-164-346-11	CERAMIC CHIP	1uF		16V
C301	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C302	1-126-022-11	ELECT	47uF	20%	16V
C303	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C307	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C311	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C312	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C313	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C314	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C315	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C316	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C317	1-126-022-11	ELECT	47uF	20%	16V
C318	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C319	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C320	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C321	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C322	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C323	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C324	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C325	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C326	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C327	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C328	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C340	1-126-022-11	ELECT	47uF	20%	16V
C351	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C352	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C353	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C354	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C355	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C356	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C357	1-126-022-11	ELECT	47uF	20%	16V
C358	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C359	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C360	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C365	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C381	1-126-022-11	ELECT	47uF	20%	16V
C401	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-126-022-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
C404	1-126-022-11	ELECT	47uF	20%	16V
C411	1-126-059-11	ELECT	10uF	20%	50V
C412	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V
C413	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C414	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C415	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C436	1-124-443-00	ELECT	100uF	20%	10V
C438	1-126-025-11	ELECT	330uF	20%	16V
C439	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C440	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C451	1-126-059-11	ELECT	10uF	20%	50V
C452	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V
C453	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C454	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C455	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C601	1-124-472-11	ELECT	470uF	20%	10V
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C604	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C606	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C607	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C608	1-126-022-11	ELECT	47uF	20%	16V
C609	1-126-022-11	ELECT	47uF	20%	16V
C610	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C611	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C612	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C613	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C615	1-126-101-11	ELECT	100uF	20%	16V
C616	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C617	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C620	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C621	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C697	1-163-124-00	CERAMIC CHIP	200PF	5%	50V
C699	1-164-232-11	CERAMIC CHIP	0.01uF		50V
		< CONNECTOR >			
* CN101	1-568-836-11	SOCKET, CONNECTOR 17P			
* CN102	1-568-828-11	SOCKET, CONNECTOR 9P			
CN601	1-573-094-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D105	8-719-990-39	DIODE	DCB010		
D601	8-719-800-76	DIODE	1SS226		
D602	8-719-210-33	DIODE	EC10DS2		
D603	8-719-800-76	DIODE	1SS226		
D604	8-719-990-36	DIODE	DCA010		
D605	8-719-021-31	DIODE	UZM5.1B		
D607	8-719-016-74	DIODE	1SS352		
D608	8-719-016-74	DIODE	1SS352		

Ref. No.	Part No.	Description			Remark
		< IC >			
IC101	8-759-636-55	IC	M5218AFP		
IC102	8-759-045-15	IC	CS5339-KS		
IC103	8-759-708-05	IC	NJM78L05A		
IC104	8-759-700-65	IC	NJM79L05A		
IC201	8-752-352-30	IC	CXD2705AQ		
IC202	8-759-085-03	IC	M5M411664TP-6		
IC301	8-752-342-65	IC	CXD2560M		
IC302	8-752-351-19	IC	CXD2561BM		
IC303	8-759-708-05	IC	NJM78L05A		
IC304	8-759-636-55	IC	M5218AFP		
IC305	8-759-636-55	IC	M5218AFP		
IC306	8-759-636-55	IC	M5218AFP		
IC310	8-759-926-98	IC	SN74HC4040ANS		
IC311	8-759-925-90	IC	SN74HC74ANS		
IC401	8-759-148-30	IC	uPD6376		
IC402	8-759-636-55	IC	M5218AFP		
IC403	8-759-636-55	IC	M5218AFP		
IC601	8-759-082-92	IC	HD6433258-MC		
IC602	8-759-634-43	IC	M51953BFP		
IC603	8-759-082-94	IC	SPC5243M0B		
IC604	8-759-245-58	IC	TC35095AF		
IC605	8-759-512-48	IC	XR-1092		
		< JUMPER RESISTOR >			
JR601	1-216-295-00	METAL CHIP	0	5%	1/10W
JR604	1-216-295-00	METAL CHIP	0	5%	1/10W
JR605	1-216-295-00	METAL CHIP	0	5%	1/10W
		< INDUCTOR >			
L401	1-410-381-11	INDUCTOR CHIP	10uH		
L402	1-410-482-31	INDUCTOR	100uH		
L601	1-410-393-11	INDUCTOR CHIP	100uH		
		< TRANSISTOR >			
Q301	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q302	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q303	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q304	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q305	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q306	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q307	8-729-805-65	TRANSISTOR	2SA1344		
Q308	8-729-805-65	TRANSISTOR	2SA1344		
Q309	8-729-805-65	TRANSISTOR	2SA1344		
Q310	8-729-805-65	TRANSISTOR	2SA1344		
Q313	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q314	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q401	8-729-107-46	TRANSISTOR	2SC3624A-L15		

DSP

Ref. No.	Part No.	Description				Remark
Q402	8-729-107-46	TRANSISTOR	2SC3624A-L15			
Q601	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q602	8-729-805-43	TRANSISTOR	2SC3396			
		< RESISTOR >				
R101	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R103	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R104	1-216-025-00	METAL CHIP	100	5%	1/10W	
R105	1-216-001-00	METAL CHIP	10	5%	1/10W	
R106	1-216-021-00	METAL CHIP	68	5%	1/10W	
R107	1-216-021-00	METAL CHIP	68	5%	1/10W	
R108	1-216-019-00	METAL CHIP	56	5%	1/10W	
R109	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R151	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R153	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R154	1-216-025-00	METAL CHIP	100	5%	1/10W	
R158	1-216-019-00	METAL CHIP	56	5%	1/10W	
R159	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R201	1-216-001-00	METAL CHIP	10	5%	1/10W	
R202	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	
R301	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R302	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R303	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R304	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R305	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R306	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R307	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R308	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R309	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R310	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R311	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R312	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R313	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R314	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R315	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R316	1-216-046-00	METAL CHIP	750	5%	1/10W	
R317	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R318	1-216-035-00	METAL CHIP	270	5%	1/10W	
R319	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R320	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R321	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R322	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R323	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R324	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R325	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R326	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R328	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R329	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R331	1-216-295-00	METAL CHIP	0	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R332	1-216-295-00	METAL CHIP	0	5%	1/10W	
R334	1-216-295-00	METAL CHIP	0	5%	1/10W	
R335	1-216-025-00	METAL CHIP	100	5%	1/10W	
R351	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R352	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R353	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R354	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R355	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R356	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R357	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R358	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R359	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R360	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R361	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R362	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R363	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R364	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R365	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R366	1-216-046-00	METAL CHIP	750	5%	1/10W	
R367	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R368	1-216-035-00	METAL CHIP	270	5%	1/10W	
R369	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R370	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R371	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R375	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R378	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R401	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R402	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R403	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R404	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R405	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R406	1-216-050-00	METAL GLAZE	1.1K	5%	1/10W	
R407	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R408	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R411	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R451	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R452	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R453	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R454	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R455	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R456	1-216-050-00	METAL GLAZE	1.1K	5%	1/10W	
R457	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R458	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R461	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R601	1-216-295-00	METAL CHIP	0	5%	1/10W	
R602	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R603	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R604	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R605	1-216-097-00	METAL CHIP	100K	5%	1/10W	

Ref. No.	Part No.	Description			Remark
R606	1-216-097-00	METAL CHIP	100K	5%	1/10W
R607	1-216-097-00	METAL CHIP	100K	5%	1/10W
R609	1-216-097-00	METAL CHIP	100K	5%	1/10W
R610	1-216-073-00	METAL CHIP	10K	5%	1/10W
R611	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R612	1-216-295-00	METAL CHIP	0	5%	1/10W
R613	1-216-073-00	METAL CHIP	10K	5%	1/10W
R614	1-216-097-00	METAL CHIP	100K	5%	1/10W
R615	1-216-097-00	METAL CHIP	100K	5%	1/10W
R616	1-216-089-00	METAL CHIP	47K	5%	1/10W
R617	1-216-089-00	METAL CHIP	47K	5%	1/10W
R618	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R619	1-216-049-00	METAL CHIP	1K	5%	1/10W
R620	1-216-089-00	METAL CHIP	47K	5%	1/10W
R621	1-216-037-00	METAL CHIP	330	5%	1/10W
R631	1-216-001-00	METAL CHIP	10	5%	1/10W
R632	1-216-001-00	METAL CHIP	10	5%	1/10W
R633	1-216-001-00	METAL CHIP	10	5%	1/10W
R634	1-216-001-00	METAL CHIP	10	5%	1/10W
R635	1-216-033-00	METAL CHIP	220	5%	1/10W
R636	1-216-033-00	METAL CHIP	220	5%	1/10W
R637	1-216-033-00	METAL CHIP	220	5%	1/10W
R638	1-216-033-00	METAL CHIP	220	5%	1/10W
R639	1-216-033-00	METAL CHIP	220	5%	1/10W
R640	1-216-033-00	METAL CHIP	220	5%	1/10W
R642	1-216-097-00	METAL CHIP	100K	5%	1/10W
R643	1-216-097-00	METAL CHIP	100K	5%	1/10W
R644	1-216-097-00	METAL CHIP	100K	5%	1/10W
R645	1-216-073-00	METAL CHIP	10K	5%	1/10W
R646	1-216-073-00	METAL CHIP	10K	5%	1/10W
R647	1-216-113-00	METAL CHIP	470K	5%	1/10W
R648	1-216-113-00	METAL CHIP	470K	5%	1/10W
R699	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
		< VIBRATOR >			
X201	1-579-069-11	VIBRATOR, CRYSTAL (49.152MHz)			
X251	1-579-314-11	VIBRATOR, CRYSTAL (22.58MHz)			
X601	1-567-928-11	VIBRATOR, CERAMIC (20MHz)			
X602	1-579-258-21	VIBRATOR, CRYSTAL (32.768kHz)			

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Ref. No.	Part No.	Description	Remark
*	1-646-995-11	INLET BOARD (EXCEPT CND)	
*	1-648-358-11	INLET BOARD (CND)	
		**********	
*	1-533-213-11	HOLDER, FUSE (EXCEPT CND)	
		< CONNECTOR >	
⚠CN901	1-526-930-11	INLET, AC (~ AC IN) (CND, E, JE)	
⚠CN901	1-526-931-11	INLET, AC (~ AC IN) (AEP, UK, G, IT, EA, AUS, MY, SP)	
CN906	1-564-321-00	PIN, CONNECTOR 2P (CND, G, IT)	
CN906	1-564-687-11	PIN, CONNECTOR 3P (AEP, UK, E, EA, AUS, JE, MY, SP)	
CN907	1-564-321-00	PIN, CONNECTOR 2P	
		< FUSE >	
⚠F905	1-532-203-00	FUSE, TIME-LAG (T2A/250V) (AEP, UK)	
		< FILTER >	
⚠LPF901	1-424-485-11	FILTER, LINE (EXCEPT CND)	
		< RESISTOR >	
R999	1-202-725-00	SOLID 3.3M 10% 1/2W (CND)	
		< SWITCH >	
⚠SW901	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (E, EA, AUS, JE, MY, SP)	

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*	A-4360-029-A	MICOM BOARD, COMPLETE (AEP, UK)	
*	A-4360-295-A	MICOM BOARD, COMPLETE (E, JE)	
*	A-4360-306-A	MICOM BOARD, COMPLETE (G, IT)	
*	A-4360-322-A	MICOM BOARD, COMPLETE (EA, AUS)	
*	A-4360-331-A	MICOM BOARD, COMPLETE (MY, SP)	
*	A-4360-939-A	MICOM BOARD, COMPLETE (CND)	
		**********	
		< CAPACITOR >	
C751	1-126-023-11	ELECT 100uF 20% 16V	
C752	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C754	1-163-222-11	CERAMIC CHIP 5PF 0.25PF 50V	
C755	1-163-222-11	CERAMIC CHIP 5PF 0.25PF 50V	
C759	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< CONNECTOR >	
* CN751	1-573-087-11	PIN, CONNECTOR 13P	
* CN752	1-568-824-11	SOCKET, CONNECTOR 5P	
CN753	1-568-802-11	SOCKET, CONNECTOR 19P	
* CN754	1-568-832-11	SOCKET, CONNECTOR 13P	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MICOM MONITOR PANEL

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D754	8-719-016-74	DIODE 1SS352			
D755	8-719-016-74	DIODE 1SS352			
		< IC >			
IC751	8-759-082-93	IC HD6433258A40F			
		< RESISTOR >			
R751	1-216-001-00	METAL CHIP	10	5%	1/10W
R752	1-216-001-00	METAL CHIP	10	5%	1/10W
R753	1-216-001-00	METAL CHIP	10	5%	1/10W
R754	1-216-001-00	METAL CHIP	10	5%	1/10W
R755	1-216-001-00	METAL CHIP	10	5%	1/10W
R756	1-216-001-00	METAL CHIP	10	5%	1/10W
R758	1-216-097-00	METAL CHIP	100K	5%	1/10W
R759	1-216-097-00	METAL CHIP	100K	5%	1/10W
R760	1-216-033-00	METAL CHIP	220	5%	1/10W
R761	1-216-033-00	METAL CHIP	220	5%	1/10W
R762	1-216-033-00	METAL CHIP	220	5%	1/10W
R763	1-216-033-00	METAL CHIP	220	5%	1/10W
		< VIBRATOR >			
X751	1-567-928-11	VIBRATOR, CERAMIC (20MHz)			
**********					
*	1-646-997-11	MONITOR BOARD			
		**********			
		< CONNECTOR >			
* CN552	1-573-273-11	PIN, CONNECTOR 3P			
		< JACK >			
J552	1-569-143-11	JACK, PIN 1P (MONITOR OUT VIDEO)			
**********					
*	A-4360-026-A	PANEL BOARD, COMPLETE (AEP, UK)			
*	A-4360-292-A	PANEL BOARD, COMPLETE (E, JE)			
*	A-4360-301-A	PANEL BOARD, COMPLETE (G, IT)			
*	A-4360-319-A	PANEL BOARD, COMPLETE (EA, AUS)			
*	A-4360-328-A	PANEL BOARD, COMPLETE (MY, SP)			
*	A-4360-936-A	PANEL BOARD, COMPLETE (CND)			
		**********			
*	4-954-237-01	HOLDER (FL TUBE)			
		< CAPACITOR >			
C701	1-124-584-00	ELECT	100uF	20%	10V
C703	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C704	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C705	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C706	1-104-694-11	FILM	0.1uF	5%	50V
C707	1-104-694-11	FILM	0.1uF	5%	50V
C708	1-104-694-11	FILM	0.1uF	5%	50V
C709	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C711	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C712	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C713	1-164-005-11	CERAMIC CHIP	0.47uF		25V
		< CONNECTOR >			
CN701	1-691-650-11	SOCKET, CONNECTOR 19P			
CN702	1-691-647-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D701	8-719-800-76	DIODE 1SS226			
D702	8-719-990-36	DIODE DCA010			
D771	8-719-301-37	LED SEL2210S-CD (KARAOKE PON)			
D772	8-719-301-37	LED SEL2210S-CD (AI CONDITION)			
D773	8-719-301-37	LED SEL2210S-CD (AI PROGRAM FUNCTION)			
D774	8-719-301-37	LED SEL2210S-CD (AI L.P.C.)			
D775	8-719-025-62	LED SML1216W (VIDEO1)			
D776	8-719-025-62	LED SML1216W (VIDEO2/MD/DAT)			
D777	8-719-301-37	LED SEL2210S-CD (PHONO)			
D778	8-719-301-37	LED SEL2210S-CD (TUNER)			
D779	8-719-301-37	LED SEL2210S-CD (CD)			
D780	8-719-301-37	LED SEL2210S-CD (TAPE)			
		< FLUORESCENT INDICATOR >			
FL701	1-517-110-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC701	8-759-082-95	IC SN755705			
IC702	8-759-082-95	IC SN755705			
IC703	8-759-082-95	IC SN755705			
		< JUMPER RESISTOR >			
JR651	1-216-295-00	METAL CHIP (AEP, UK, G, IT)	0	5%	1/10W
JR652	1-216-295-00	METAL CHIP E, EA, AUS, JE, MY, SP)	0	5%	1/10W (CND,
		< TRANSISTOR >			
Q701	8-729-805-66	TRANSISTOR 2SA1496			
		< RESISTOR >			
R651	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R652	1-216-025-00	METAL CHIP	100	5%	1/10W
R653	1-216-027-00	METAL CHIP	120	5%	1/10W

Ref. No.	Part No.	Description			Remark
R654	1-216-027-00	METAL CHIP	120	5%	1/10W
R655	1-216-029-00	METAL CHIP	150	5%	1/10W
R656	1-216-031-00	METAL CHIP	180	5%	1/10W
R657	1-216-033-00	METAL CHIP	220	5%	1/10W
R658	1-216-035-00	METAL CHIP	270	5%	1/10W
R659	1-216-037-00	METAL CHIP	330	5%	1/10W
R660	1-216-041-00	METAL CHIP	470	5%	1/10W
R661	1-216-043-00	METAL CHIP	560	5%	1/10W
R662	1-216-047-00	METAL CHIP	820	5%	1/10W
R663	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R671	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R672	1-216-025-00	METAL CHIP	100	5%	1/10W
R673	1-216-027-00	METAL CHIP	120	5%	1/10W
R674	1-216-027-00	METAL CHIP	120	5%	1/10W
R675	1-216-029-00	METAL CHIP	150	5%	1/10W
R676	1-216-031-00	METAL CHIP	180	5%	1/10W
R677	1-216-033-00	METAL CHIP	220	5%	1/10W
R678	1-216-035-00	METAL CHIP	270	5%	1/10W
R679	1-216-037-00	METAL CHIP	330	5%	1/10W
R680	1-216-041-00	METAL CHIP	470	5%	1/10W
R681	1-216-043-00	METAL CHIP	560	5%	1/10W
R682	1-216-047-00	METAL CHIP	820	5%	1/10W
R683	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R684	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R701	1-216-073-00	METAL CHIP	10K	5%	1/10W
R702	1-216-097-00	METAL CHIP	100K	5%	1/10W
R703	1-216-049-00	METAL CHIP	1K	5%	1/10W
R704	1-216-105-00	METAL CHIP	220K	5%	1/10W
R705	1-216-105-00	METAL CHIP	220K	5%	1/10W
R771	1-216-035-00	METAL CHIP	270	5%	1/10W
R772	1-216-035-00	METAL CHIP	270	5%	1/10W
R773	1-216-035-00	METAL CHIP	270	5%	1/10W
R774	1-216-035-00	METAL CHIP	270	5%	1/10W
R775	1-216-035-00	METAL CHIP	270	5%	1/10W
R776	1-216-035-00	METAL CHIP	270	5%	1/10W
R777	1-216-035-00	METAL CHIP	270	5%	1/10W
R781	1-216-033-00	METAL CHIP	220	5%	1/10W
R782	1-216-033-00	METAL CHIP	220	5%	1/10W

< VARIABLE RESISTOR >

RV601	1-223-174-11	RES, VAR, CARBON (WITH SWITCH) 10K (CONTROLLER)

< SWITCH >

S651	1-554-303-21	SWITCH, TACTILE (AUDIO FUNCTION)
S652	1-554-303-21	SWITCH, TACTILE (VIDEO FUNCTION)
S653	1-554-303-21	SWITCH, TACTILE (DIRECT)
S654	1-554-303-21	SWITCH, TACTILE (DDS)
S655	1-554-303-21	SWITCH, TACTILE (DPS)
S656	1-554-303-21	SWITCH, TACTILE (DPE)
S657	1-554-303-21	SWITCH, TACTILE (RELAX)
S658	1-554-303-21	SWITCH, TACTILE (SLEEP)
S659	1-554-303-21	SWITCH, TACTILE (REC TIMER)
S660	1-554-303-21	SWITCH, TACTILE (TIMER2)
S661	1-554-303-21	SWITCH, TACTILE (TIMER1)
S671	1-554-303-21	SWITCH, TACTILE (AI PROGRAM FUNCTION 2)
S672	1-554-303-21	SWITCH, TACTILE (AI PROGRAM FUNCTION 1)
S673	1-554-303-21	SWITCH, TACTILE (AI L.P.C.)
S674	1-554-303-21	SWITCH, TACTILE (AI CONDITION)
S675	1-554-303-21	SWITCH, TACTILE (DISPLAY)
S676	1-554-303-21	SWITCH, TACTILE (USER MEMORY)
S677	1-554-303-21	SWITCH, TACTILE (KARAOKE PON)
S678	1-554-303-21	SWITCH, TACTILE (MENU3)
S679	1-554-303-21	SWITCH, TACTILE (MENU2)
S680	1-554-303-21	SWITCH, TACTILE (MENU1)

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*	A-4360-027-A	PIN JACK BOARD, COMPLETE (AEP, UK)
*	A-4360-293-A	PIN JACK BOARD, COMPLETE (E, JE)
*	A-4360-302-A	PIN JACK BOARD, COMPLETE (G, IT)
*	A-4360-320-A	PIN JACK BOARD, COMPLETE (EA, AUS)
*	A-4360-329-A	PIN JACK BOARD, COMPLETE (MY, SP)
*	A-4360-937-A	PIN JACK BOARD, COMPLETE (CND)

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< CAPACITOR >

C501	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C502	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C503	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C504	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C505	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C506	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C521	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C522	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C523	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C524	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C525	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C526	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C527	1-126-023-11	ELECT	100uF	20%	16V
C528	1-126-023-11	ELECT	100uF	20%	16V
C529	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C530	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C531	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C532	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C533	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C534	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C535	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C536	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C551	1-126-059-11	ELECT	10uF	20%	50V

PIN JACK

Ref. No.	Part No.	Description			Remark
C552	1-126-059-11	ELECT	10uF	20%	50V
C553	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C554	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C555	1-126-022-11	ELECT	47uF	20%	16V
C556	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C557	1-126-022-11	ELECT	47uF	20%	16V
C560	1-126-925-11	ELECT	470uF	20%	10V
C562	1-126-925-11	ELECT	470uF	20%	10V
C571	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C572	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C573	1-126-163-11	ELECT	4.7uF	20%	50V
C574	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C575	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C576	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C577	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C581	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C582	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C583	1-126-163-11	ELECT	4.7uF	20%	50V
C584	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C585	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C586	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C587	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN501	1-580-740-31	SOCKET, CONNECTOR 17P (SYSTEM CONTROL)			
CN502	1-568-860-11	SOCKET, CONNECTOR 17P			
CN503	1-695-009-11	PIN, CONNECTOR (PC BOARD) 9P			
CN551	1-751-217-21	LEAD (WITH CONNECTOR) (3 CORE)			
		< DIODE >			
D501	8-719-021-31	DIODE UZM5.1B			
D502	8-719-021-31	DIODE UZM5.1B			
D503	8-719-990-36	DIODE DCA010			
		< IC >			
IC501	8-759-009-06	IC MC14052BF			
IC502	8-759-008-67	IC MC14066BF			
IC503	8-759-636-55	IC M5218AFP			
IC551	8-759-061-95	IC SN761200			
		< JACK >			
J501	1-565-304-11	JACK, PIN 4P (VIDEO1 OUT/IN AUDIO)			
* J502	1-569-812-11	JACK, PIN 6P (PHONO IN AUDIO, VIDEO2/MD/DAT OUT/IN AUDIO)			
J551	1-750-577-11	JACK, PIN 3P (VIDEO2/MD/DAT IN VIDEO, VIDEO1 OUT/IN VIDEO)			

Ref. No.	Part No.	Description			Remark
		< JUMPER RESISTOR >			
JR501	1-216-295-00	METAL CHIP	0	5%	1/10W
		< INDUCTOR >			
L551	1-408-789-21	INDUCTOR CHIP	100uH		
		< TRANSISTOR >			
Q501	8-729-805-65	TRANSISTOR	2SA1344		
Q503	8-729-805-41	TRANSISTOR	2SC3398		
Q504	8-729-805-65	TRANSISTOR	2SA1344		
Q505	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q506	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q551	8-729-600-22	TRANSISTOR	2SA1235-F		
Q553	8-729-600-22	TRANSISTOR	2SA1235-F		
		< RESISTOR >			
R501	1-216-049-00	METAL CHIP	1K	5%	1/10W
R502	1-216-049-00	METAL CHIP	1K	5%	1/10W
R503	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R504	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R505	1-216-049-00	METAL CHIP	1K	5%	1/10W
R506	1-216-049-00	METAL CHIP	1K	5%	1/10W
R507	1-216-097-00	METAL CHIP	100K	5%	1/10W
R508	1-216-115-00	METAL CHIP	560K	5%	1/10W
R509	1-216-073-00	METAL CHIP	10K	5%	1/10W
R510	1-216-073-00	METAL CHIP	10K	5%	1/10W
R511	1-216-115-00	METAL CHIP	560K	5%	1/10W
R512	1-216-097-00	METAL CHIP	100K	5%	1/10W
R522	1-216-041-00	METAL CHIP	470	5%	1/10W
R523	1-216-041-00	METAL CHIP	470	5%	1/10W
R524	1-216-041-00	METAL CHIP	470	5%	1/10W
R525	1-216-041-00	METAL CHIP	470	5%	1/10W
R528	1-216-115-00	METAL CHIP	560K	5%	1/10W
R529	1-216-115-00	METAL CHIP	560K	5%	1/10W
R530	1-216-115-00	METAL CHIP	560K	5%	1/10W
R531	1-216-115-00	METAL CHIP	560K	5%	1/10W
R533	1-216-097-00	METAL CHIP	100K	5%	1/10W
R536	1-216-049-00	METAL CHIP	1K	5%	1/10W
R537	1-216-049-00	METAL CHIP	1K	5%	1/10W
R538	1-216-025-00	METAL CHIP	100	5%	1/10W
R539	1-216-025-00	METAL CHIP	100	5%	1/10W
R540	1-216-025-00	METAL CHIP	100	5%	1/10W
R541	1-216-025-00	METAL CHIP	100	5%	1/10W
R542	1-216-025-00	METAL CHIP	100	5%	1/10W
R543	1-216-025-00	METAL CHIP	100	5%	1/10W
R544	1-216-073-00	METAL CHIP	10K	5%	1/10W
R545	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R546	1-216-073-00	METAL CHIP	10K	5%	1/10W
R547	1-216-073-00	METAL CHIP	10K	5%	1/10W
R548	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R549	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R551	1-216-022-00	METAL CHIP	75	5%	1/10W
R552	1-216-022-00	METAL CHIP	75	5%	1/10W
R553	1-216-097-00	METAL CHIP	100K	5%	1/10W
R554	1-216-097-00	METAL CHIP	100K	5%	1/10W
R555	1-216-031-00	METAL CHIP	180	5%	1/10W
R557	1-216-031-00	METAL CHIP	180	5%	1/10W
R558	1-216-025-00	METAL CHIP	100	5%	1/10W
R560	1-216-025-00	METAL CHIP	100	5%	1/10W
R561	1-216-022-00	METAL CHIP	75	5%	1/10W
R563	1-216-022-00	METAL CHIP	75	5%	1/10W
R564	1-216-049-00	METAL CHIP	1K	5%	1/10W
R566	1-216-049-00	METAL CHIP	1K	5%	1/10W
R567	1-216-025-00	METAL CHIP	100	5%	1/10W
R568	1-216-025-00	METAL CHIP	100	5%	1/10W
R571	1-216-089-00	METAL CHIP	47K	5%	1/10W
R572	1-216-047-00	METAL CHIP	820	5%	1/10W
R573	1-216-115-00	METAL CHIP	560K	5%	1/10W
R574	1-216-089-00	METAL CHIP	47K	5%	1/10W
R575	1-216-001-00	METAL CHIP	10	5%	1/10W
R576	1-216-097-00	METAL CHIP	100K	5%	1/10W
R581	1-216-089-00	METAL CHIP	47K	5%	1/10W
R582	1-216-047-00	METAL CHIP	820	5%	1/10W
R583	1-216-115-00	METAL CHIP	560K	5%	1/10W
R584	1-216-089-00	METAL CHIP	47K	5%	1/10W
R585	1-216-001-00	METAL CHIP	10	5%	1/10W
R586	1-216-097-00	METAL CHIP	100K	5%	1/10W

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*	A-4360-028-A	POWER BOARD, COMPLETE (AEP, UK)
*	A-4360-294-A	POWER BOARD, COMPLETE (E, JE)
*	A-4360-303-A	POWER BOARD, COMPLETE (G, IT)
*	A-4360-321-A	POWER BOARD, COMPLETE (EA, AUS)
*	A-4360-330-A	POWER BOARD, COMPLETE (MY, SP)
*	A-4360-938-A	POWER BOARD, COMPLETE (CND)

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*	1-533-213-11	HOLDER, FUSE
*	3-309-144-21	HEAT SINK
*	3-701-946-23	LABEL (2A125V), FUSE (CND)
	7-682-547-09	SCREW +BVTT 3X6 (S)

< CAPACITOR >

C901	1-126-027-11	ELECT	1000uF	20%	25V
C903	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C904	1-126-023-11	ELECT	100uF	20%	16V
C905	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C906	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C951	1-126-027-11	ELECT	1000uF	20%	25V
C954	1-126-025-11	ELECT	330uF	20%	16V
C955	1-124-556-11	ELECT	2200uF	20%	16V
C962	1-126-892-71	ELECT	33uF	20%	100V
C963	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C964	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C965	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C966	1-126-890-11	ELECT	10uF	20%	100V
C967	1-126-890-11	ELECT	10uF	20%	100V

< CONNECTOR >

* CN902	1-568-828-11	SOCKET, CONNECTOR 9P
* CN904	1-568-824-11	SOCKET, CONNECTOR 5P
CN905	1-691-992-11	PIN, CONNECTOR (PC BOARD) 3P
CN908	1-751-217-21	LEAD (WITH CONNECTOR) (3 CORE) (AEP, UK, E, EA, AUS, JE, MY, SP)
CN908	1-751-325-21	LEAD (WITH CONNECTOR) (2 CORE) (G, IT)

< DIODE >

D901	8-719-210-39	DIODE EC10QS-04
D902	8-719-210-39	DIODE EC10QS-04
D903	8-719-210-39	DIODE EC10QS-04
D904	8-719-210-39	DIODE EC10QS-04
D905	8-719-210-39	DIODE EC10QS-04
D906	8-719-210-39	DIODE EC10QS-04
D908	8-719-210-33	DIODE EC10DS2
D909	8-719-210-33	DIODE EC10DS2
D910	8-719-022-80	DIODE UZM-36Z
D911	8-719-022-80	DIODE UZM-36Z
D912	8-719-015-79	DIODE UZP-22B

< FUSE >

⚠F901	1-532-777-21	FUSE, MICRO (SECONDARY) (1.25A/125V) (CND)
⚠F903	1-532-203-00	FUSE, TIME-LAG (T2A/250V) (EXCEPT CND)
⚠F903	1-532-743-11	FUSE, GLASS TUBE (2A/125V) (CND)
⚠F904	1-532-203-00	FUSE, TIME-LAG (T2A/250V) (EXCEPT CND)
⚠F904	1-532-743-11	FUSE, GLASS TUBE (2A/125V) (CND)
⚠F951	1-532-777-21	FUSE, MICRO (SECONDARY) (1.25A/125V) (CND)

< IC >

IC901	8-759-602-66	IC M5230L-A

< IC LINK >

⚠ICP901	1-532-840-21	LINK, IC (PRF1250) (1.25A) (EXCEPT CND)
⚠ICP951	1-532-840-21	LINK, IC (PRF1250) (1.25A) (EXCEPT CND)

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER REG

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q901	8-729-141-83	TRANSISTOR 2SB1094-LK			
Q902	8-729-805-41	TRANSISTOR 2SC3398			
Q903	8-729-118-01	TRANSISTOR 2SB1116			
Q904	8-729-805-41	TRANSISTOR 2SC3398			
Q905	8-729-805-65	TRANSISTOR 2SA1344			
Q906	8-729-195-82	TRANSISTOR 2SC2958			
Q951	8-729-209-15	TRANSISTOR 2SD2012			
		< RESISTOR >			
R901	1-216-033-00	METAL CHIP	220	5%	1/10W
R902	1-216-295-00	METAL CHIP	0	5%	1/10W
R903	1-216-025-00	METAL CHIP	100	5%	1/10W
R904	1-216-025-00	METAL CHIP	100	5%	1/10W
R905	1-216-080-00	METAL CHIP	20K	5%	1/10W
R906	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R907	1-216-077-00	METAL CHIP	15K	5%	1/10W
R908	1-216-077-00	METAL CHIP	15K	5%	1/10W
R909	1-216-113-00	METAL CHIP	470K	5%	1/10W
R910	1-216-041-00	METAL CHIP	470	5%	1/10W
R911	1-216-041-00	METAL CHIP	470	5%	1/10W
R912	1-216-073-00	METAL CHIP	10K	5%	1/10W
R913	1-216-097-00	METAL CHIP	100K	5%	1/10W
R916	1-216-089-00	METAL CHIP	47K	5%	1/10W
R917	1-216-073-00	METAL CHIP	10K	5%	1/10W
R918	1-216-049-00	METAL CHIP	1K	5%	1/10W
⚠R919	9-910-999-33	FUSIBLE	0.22	5%	1/4W F
⚠R920	9-910-999-33	FUSIBLE	0.22	5%	1/4W F
⚠R921	1-212-958-00	FUSIBLE	10	5%	1/2W F
R951	1-216-033-00	METAL CHIP	220	5%	1/10W
R952	1-216-295-00	METAL CHIP	0	5%	1/10W
**********					
*	1-646-551-11	REG BOARD			
		*********			
		< CAPACITOR >			
C971	1-126-022-11	ELECT	47uF	20%	16V
C972	1-126-022-11	ELECT	47uF	20%	16V
C973	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C974	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C975	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< DIODE >			
D971	8-719-990-39	DIODE DCB010			
		< IC >			
IC971	8-759-231-53	IC TA7805S			

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		************	
8	1-696-781-11	WIRE (FLAT TYPE) (13 CORE)	
9	1-696-780-11	WIRE (FLAT TYPE) (19 CORE)	
14	1-590-031-11	WIRE (FLAT TYPE) (5 CORE)	
15	1-590-241-11	WIRE (FLAT TYPE) (9 CORE)	
17	1-575-733-11	WIRE (FLAT TYPE) (17 CORE)	
22	1-751-216-31	LEAD (WITH CONNECTOR) (2 CORE)	
⚠CN909	1-526-794-11	OUTLET, AC (AC OUTLET) (EXCEPT CND)	
⚠CN909	1-526-882-00	OUTLET, AC (AC OUTLET) (CND)	
⚠T901	1-423-541-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T901	1-423-542-11	TRANSFORMER, POWER (E, EA, AUS, JE, MY, SP)	
⚠T901	1-423-561-11	TRANSFORMER, POWER (UK)	
⚠T901	1-423-708-11	TRANSFORMER, POWER (CND)	

****

HARDWARE LIST

****

#1	7-682-547-09	SCREW +BVTT 3X6 (S)
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#3	7-682-547-09	SCREW +BVTT 3X6 (S)
#4	7-621-849-00	SCREW, TAPPING
#5	7-682-548-04	SCREW +BVTT 3X8 (S)

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-957-657-12

Sony Corporation
Audio Group

English
93E04039-1
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© 1993. 5
Published by Audio Sector Quality Assurance Dept.

TA-H6800N

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the Power Amplifier section in FH-E9X, MHC-6800.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (CND model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

For front speaker:

With 6 ohm loads both channels driven, from 40—20,000 Hz; rated 70 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

For rear speaker:

With 16 ohm loads both channels driven, from 100—20,000 Hz; rated 10 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

(CND model)

Continuous RMS power output
- FRONT: 70+70 watts (6 ohms, at 40 Hz—20 kHz, 1% THD)
- REAR: 10+10 watts (16 ohms, at 100 Hz—20 kHz, 1% THD)
- FRONT: 80+80 watts (6 ohms, at 1 kHz, 5% THD)
- REAR: 12+12 watts (16 ohms, at 1 kHz, 5% THD)

(AEP, UK, G, IT model)

Continuous RMS power output
- FRONT: 70 + 70 watts (6 ohms, at 1 kHz, DIN)
- REAR: 10 + 10 watts (16 ohms, at 1 kHz, DIN)
- FRONT: 80 + 80 watts (6 ohms, at 1 kHz, 5% THD)
- REAR: 12 + 12 watts (16 ohms, at 1 kHz, 5% THD)

Music power output
- FRONT: 185 + 185 watts (6 ohms, at 1 kHz, 10% THD)
- REAR: 15 + 15 watts (16 ohms, at 1 kHz, 10% THD)

(AUS model)

Continuous RMS power output
- FRONT: 80 + 80 watts (6 ohms, at 1 kHz, 5% THD)
- REAR: 12 + 12 watts (8 ohms, at 1 kHz, 5% THD)

Peak music power output
- 1,000 watts (4 speakers driven)

(E, EA, JE, MY, SP model)

Continuous RMS power output
- FRONT: 80 + 80 watts (6 ohms, at 1 kHz, 5% THD)
- REAR: 12 + 12 watts (16 ohms, at 1 kHz, 5% THD)

Peak music power output
- FRONT: 80 + 80 watts (6 ohms, at 1 kHz, 5% THD)
- REAR: 12 + 12 watts (16 ohms, at 1 kHz, 5% THD)

Inputs
- MIX MIC (minijack):
  - (CND model) sensitivity 1 mV, impedance 10 kilohms
  - (EXCEPT CND model) sensitivity 1 mV, impedance 600 ohms

Outputs
- HEADPHONES (stereo minijack): accepts headphones of 8 ohms or more
- FRONT SPEAKER:
  - (CND model) accepts speakers of 6 to 16 ohms
  - (EXCEPT CND model) accepts speakers of 8 to 16 ohms
- REAR SPEAKER (phono jack):
  - (CND, AEP, UK, G, IT model) accepts speakers of 16 ohms
  - (E, AUS, EA, JE, MY, SP model) accepts speakers of 8 to 16 ohms

Design and specifications subject to change without notice.

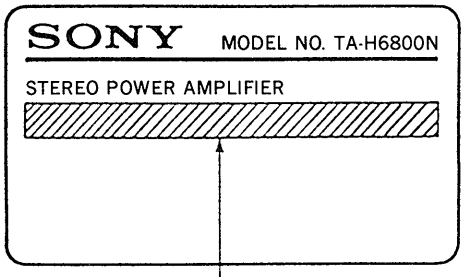
- CND: Canadian model
- G : German model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- JE : Tourist model
- MY : Malaysia model
- SP : Singapore model

STEREO POWER AMPLIFIER

SONY®

MODEL IDENTIFICATION

—Model Number Label—



CND model : AC: 120V—60Hz
AEP model : AC: 220—230V~50/60Hz 150W
UK model : AC: 240V~50Hz
G, IT model : AC: 220—230V~50Hz 150W
E, AUS, EA, JE, MY, SP model
: AC: 110—120/220—240V~50/60Hz 175W

- CND: Canadian model
- G : German model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- JE : Tourist model
- MY : Malaysia model
- SP : Singapore model

NOTE FOR REPAIRING

Usually, the power supply is controlled by the pre amplifier TA-H6800E. However, when repairing this set individually, connect power supply jig for Liberty or FH to CNJ101.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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2-2. VOL Board 3
2-3. Back Panel 3
2-4. Heat Sink 4
2-5. Main Board 4

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5. ELECTRICAL PARTS LIST 17

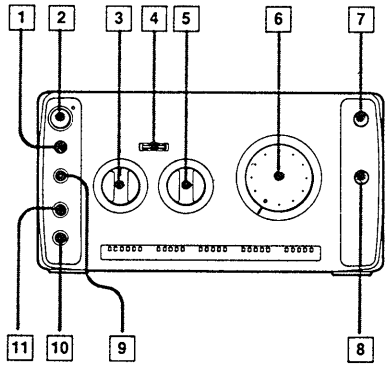
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION

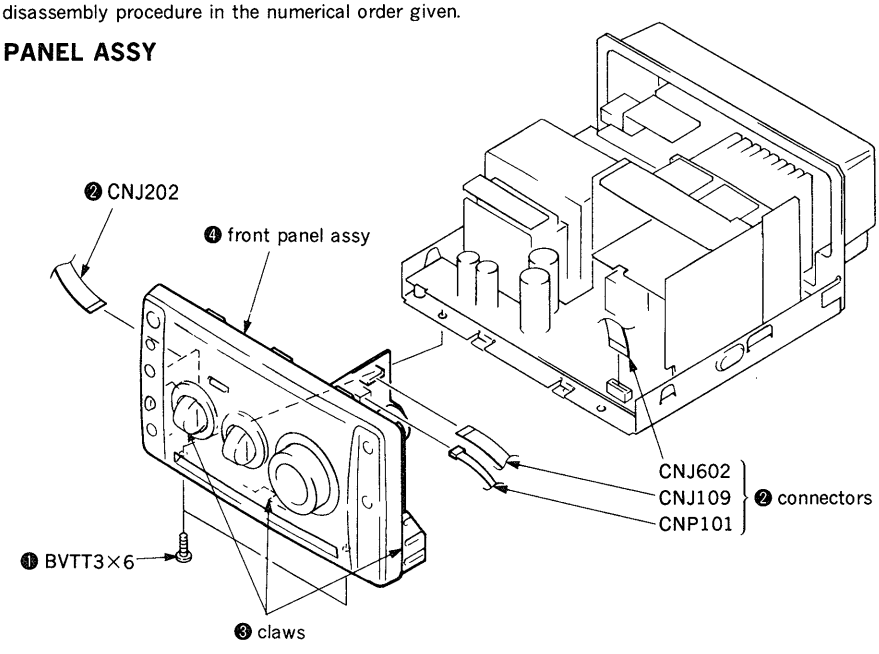


1 Remote control sensor
2 SYSTEM POWER switch and ON/STANDBY indicator
The indicator remains lit as long as the AC power cord is connected to a wall outlet.
3 FREQUENCY control (36)
4 DYNAMIC BASS SYSTEM button (36)
5 LEVEL (Bass level) control (36)
6 VOLUME control (36, 130)
7 MUTING button and indicator (36)
8 REAR SPEAKERS button and indicator (110)
9 HEADPHONES jack (stereo minijack) (36)
10 MIX MIC (microphone) input jack (minijack) (146)
11 MIC (microphone) LEVEL control (146)

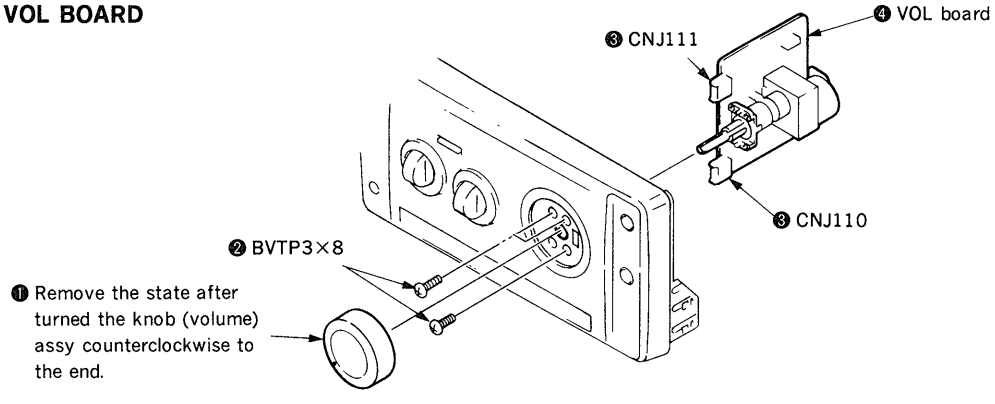
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

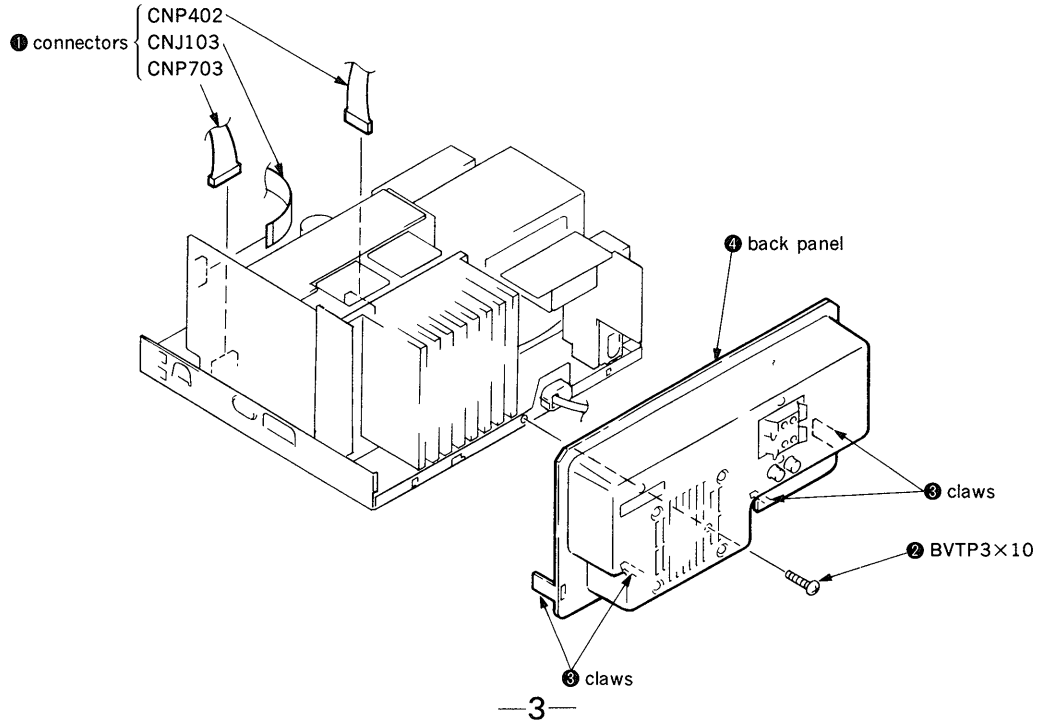
2-1. FRONT PANEL ASSY



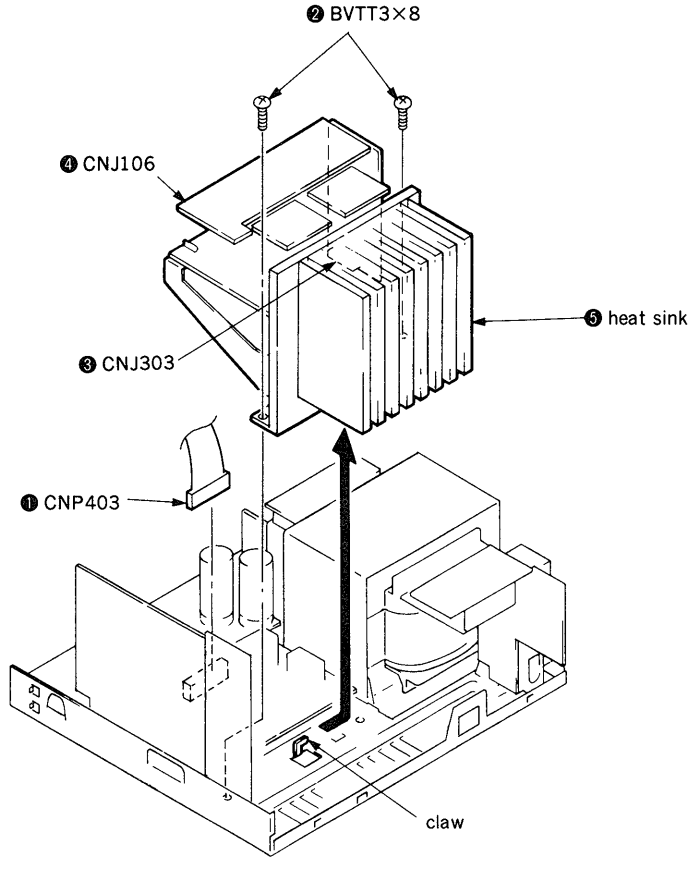
2-2. VOL BOARD



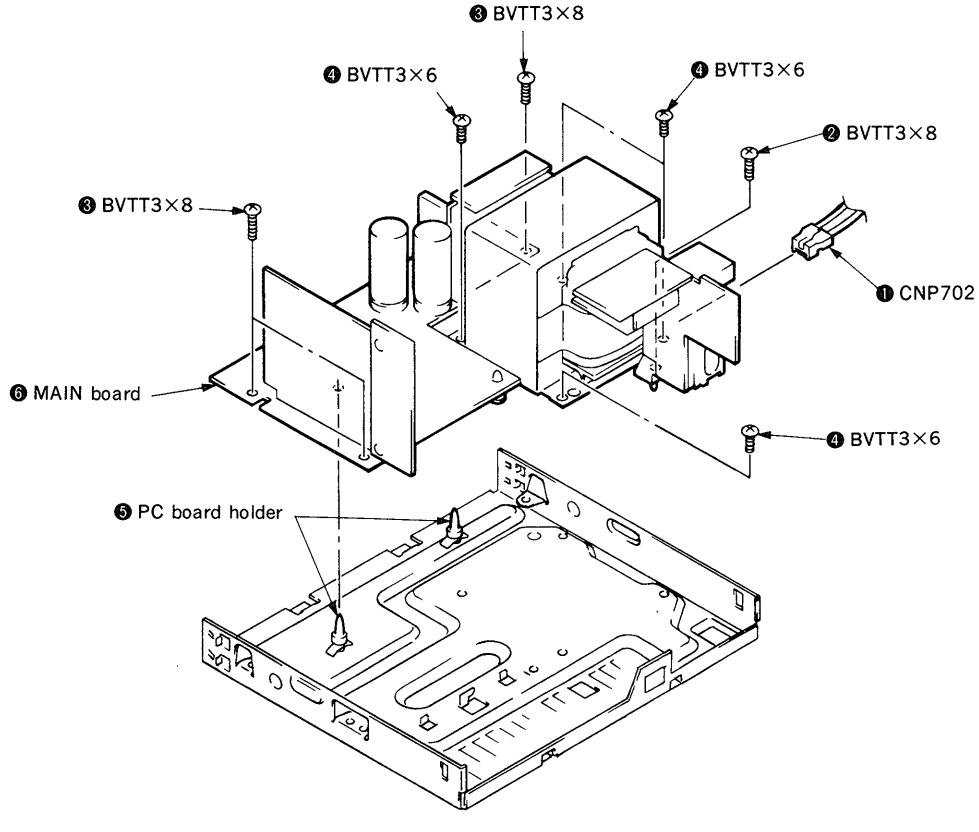
2-3. BACK PANEL



2-4. HEAT SINK



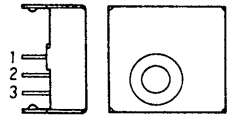
2-5. MAIN BOARD



SECTION 3
DIAGRAMS

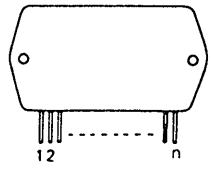
3-1. SEMICONDUCTOR LEAD LAYOUTS

GP1U59XB

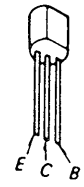


1. VCC
2. VOUT
3. GND

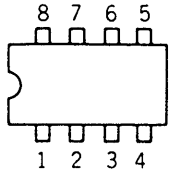
STK4231MK2



2SC1841
-PAFAEA

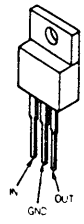


LB1639
M5218AP
μPC393C

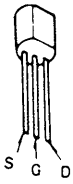


(Top view)

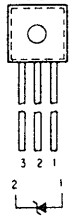
M5F7812L



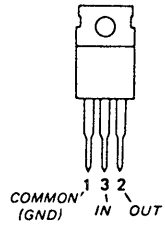
2SK246-GR3



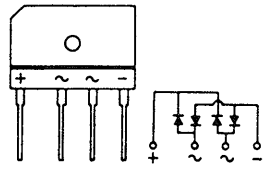
LM35DZ



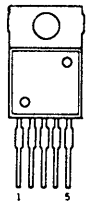
TA7912S



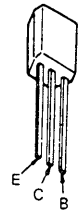
D5SBA20F01



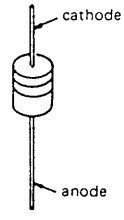
L78MR06
SI18752N



DTA124ES
DTC114ES
DTC124ES
2SC2603-EF
2SC3623A-LK



UZL-15M
11ES2



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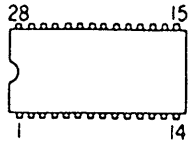
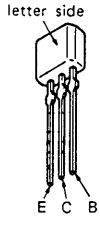
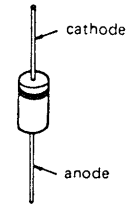


(Top view)

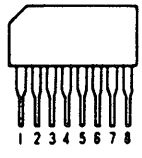
2SA1175-HFE



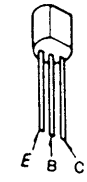
1N4148M



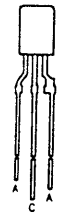
M5218AL
μPC1237HA



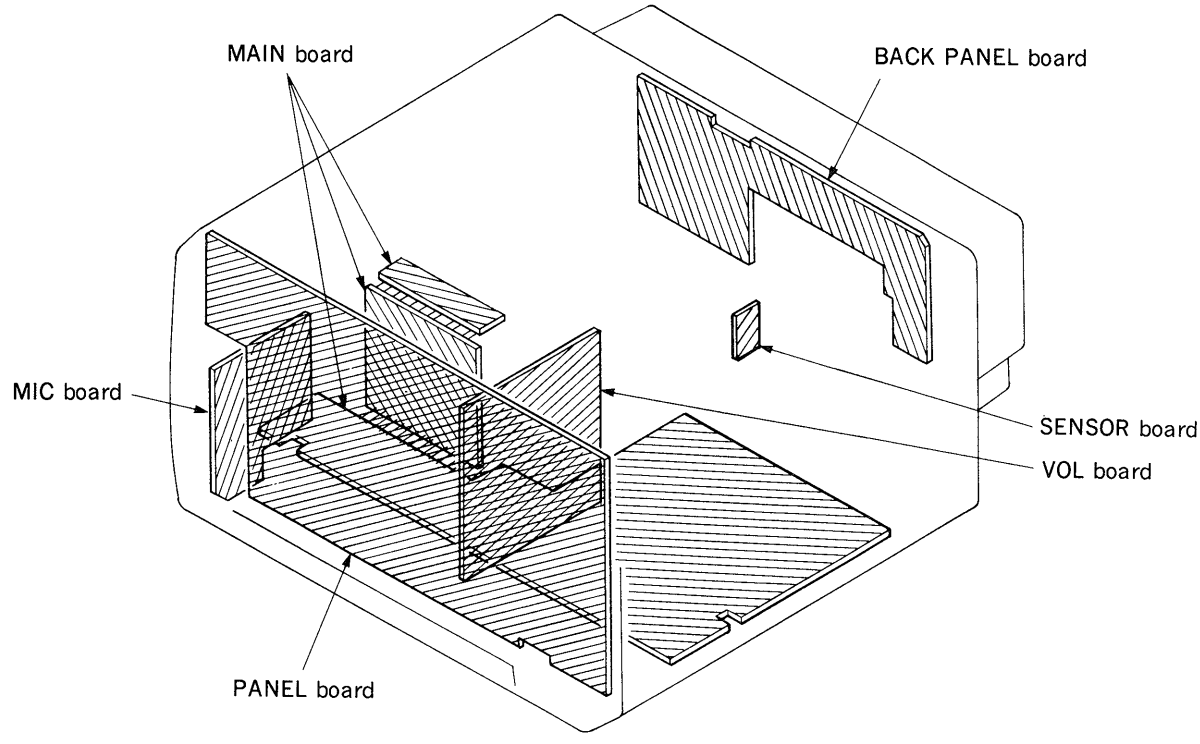
2SB1116-K

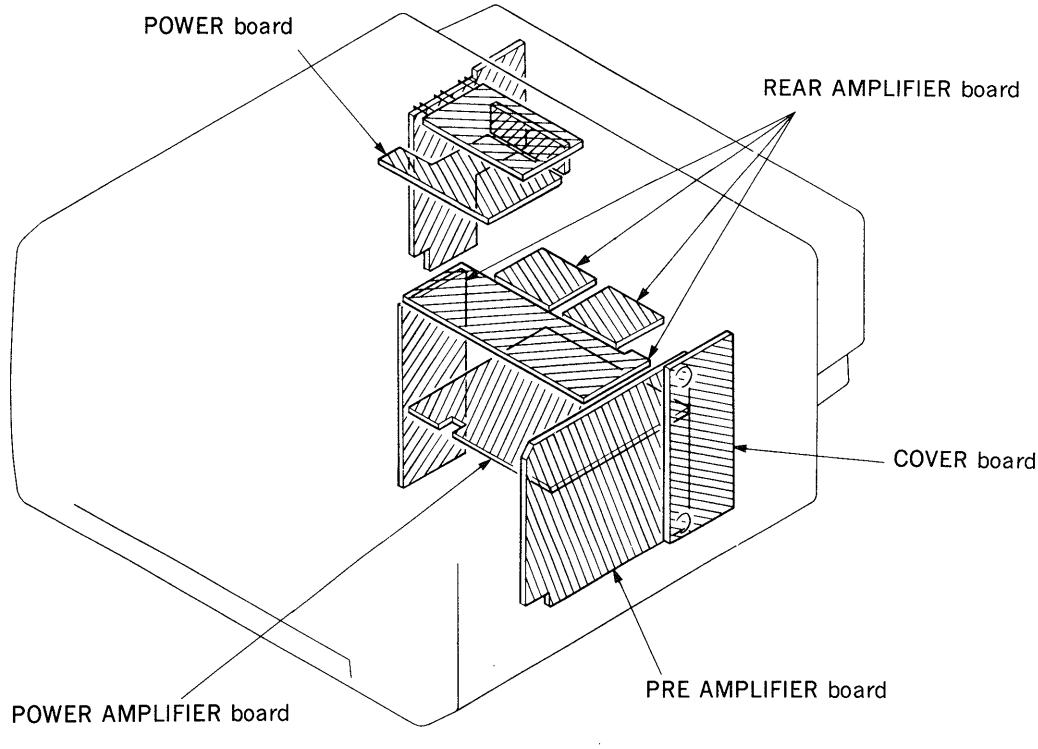


SML1260S
SML1860A



3-2. CIRCUIT BOARDS LOCATION





3-3. PRINTED WIRING BOARDS

• Refer to page 5 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	G-3	IC201	D-11
D151	G-3	IC301	B-17
D301	G-20	IC302	A-12
D302	G-20	IC352	A-13
D303	B-17	IC401	G-15
D304	B-17	IC501	G-19
D401	J-16	IC502	F-18
D402	G-20	IC503	D-13
D403	G-19	IC601	J-5
D451	I-13	IC602	J-11
D501	G-19	IC603	I-1
D502	H-19	IC701	J-19
D503	F-18	IC702	I-20
D504	H-18	IC703	J-20
D505	H-18		
D506	H-18	Q101	C-17
D507	C-14	Q102	G-3
D551	G-19	Q103	G-2
D601	I-2	Q151	D-17
D602	I-2	Q152	H-3
D603	J-3	Q153	H-2
D605	I-5	Q301	A-17
D606	J-2	Q302	A-18
D607	J-9	Q303	F-19
D608	I-9	Q304	F-20
D609	I-3	Q305	F-19
D610	I-4	Q306	B-18
D611	I-3	Q351	A-16
D612	G-8	Q352	A-16
D613	G-8	Q401	J-15
D614	J-11	Q402	F-18
D701	B-5	Q403	F-18
D702	B-5	Q451	I-13
D703	G-7	Q501	G-18
D704	A-22	Q502	H-18
(D704)	D-27	Q503	H-18
D705	A-22	Q601	J-2
(D705)	D-27	Q602	I-5
D706	I-24	Q603	A-25
D707	I-23	(Q603)	D-27
D708	I-23	Q605	J-4
D709	I-24	Q606	I-2
D710	G-24	Q607	C-17
D711	G-24	Q608	J-9
D712	H-22	Q609	I-3
		Q610	I-4
IC101	C-17	Q611	H-5
IC102	G-4		

( ): EXCEPT CND, AEP, UK, G, IT model

Note on Printed Wiring Board:

- ⟷ : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.
- G : German model
- IT : Italian model
- CND : Canadian model

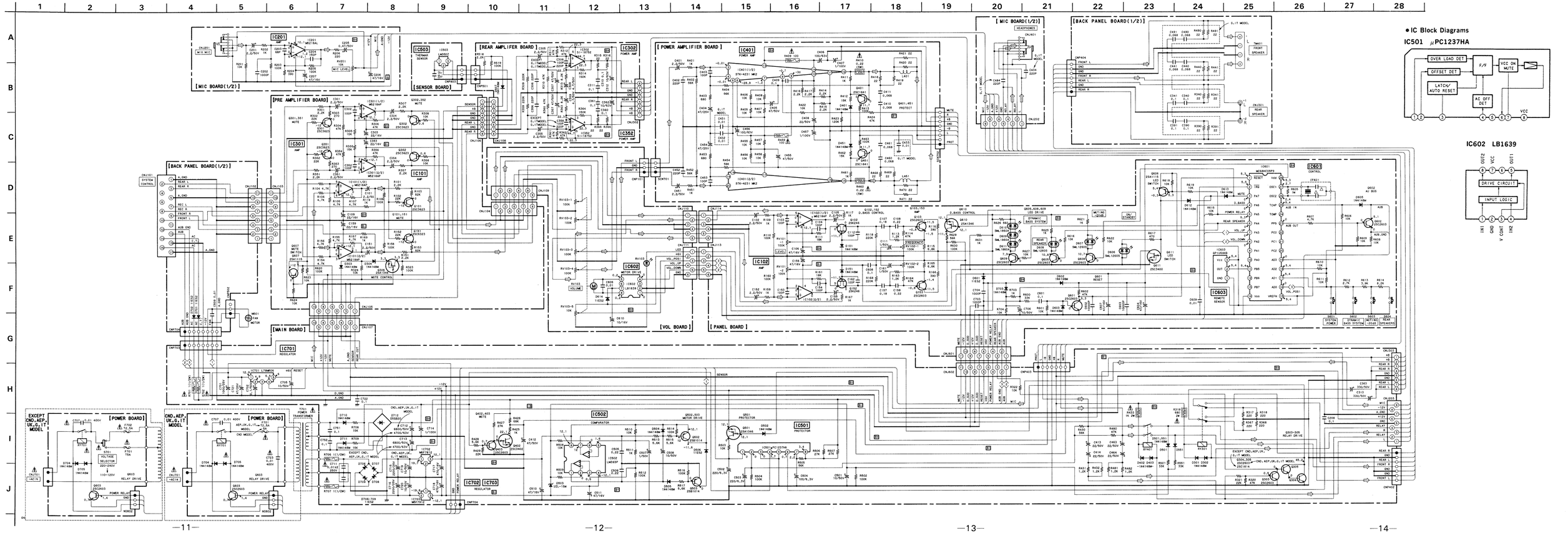
[BACK PANEL BOARD] [REAR AMPLIFIER BOARD] [PRE AMPLIFIER BOARD] [POWER BOARD] CND,AEP,UK,G,IT MODEL [POWER BOARD] EXCEPT CND,AEP,UK,G,IT MODEL [MIC BOARD] [SENSOR BOARD] [PANEL BOARD] [VOL BOARD] [POWER AMPLIFIER BOARD] [MAIN BOARD]

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.

Note:	Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : MIX MIC
- G : German model
- IT : Italian model
- CND : Canadian model


[MIC BOARD(1/2)]
[BACK PANEL BOARD(1/2)]
[PRE AMPLIFIER BOARD]
[REAR AMPLIFER BOARD]
[POWER AMPLIFIER BOARD]
[SENSOR BOARD]
[VOL BOARD]
[PANEL BOARD]
[MAIN BOARD]
[POWER BOARD]
EXCEPT CND,AEP,UK,G,IT MODEL
CND,AEP,UK,G,IT MODEL
IC201
IC301
IC101
IC102
IC401
IC302
IC352
IC503
IC602
IC603
IC701
IC702
IC703
IC501
IC502
IC601
IC602
IC603
IC401 POWER AMP
IC102 AMP
IC602 MOTOR DRIVE
IC603 CONTROL
IC701 REGULATOR
IC501 PROTECTOR
IC502 COMPARATOR
IC603 REMOTE SENSOR
IC602 LB1639
OVER LOAD DET
OFFSET DET
LATCH/ AUTO RESET
AC OFF DET
F/F
VCC ON MUTE
VCC
OUT2
VCC
OUT1
DRIVE CIRCUIT
INPUT LOGIC
IN1
GND
V CONT
IN2
• IC Block Diagrams
IC501 μPC1237HA
IC602 LB1639

SECTION 4
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

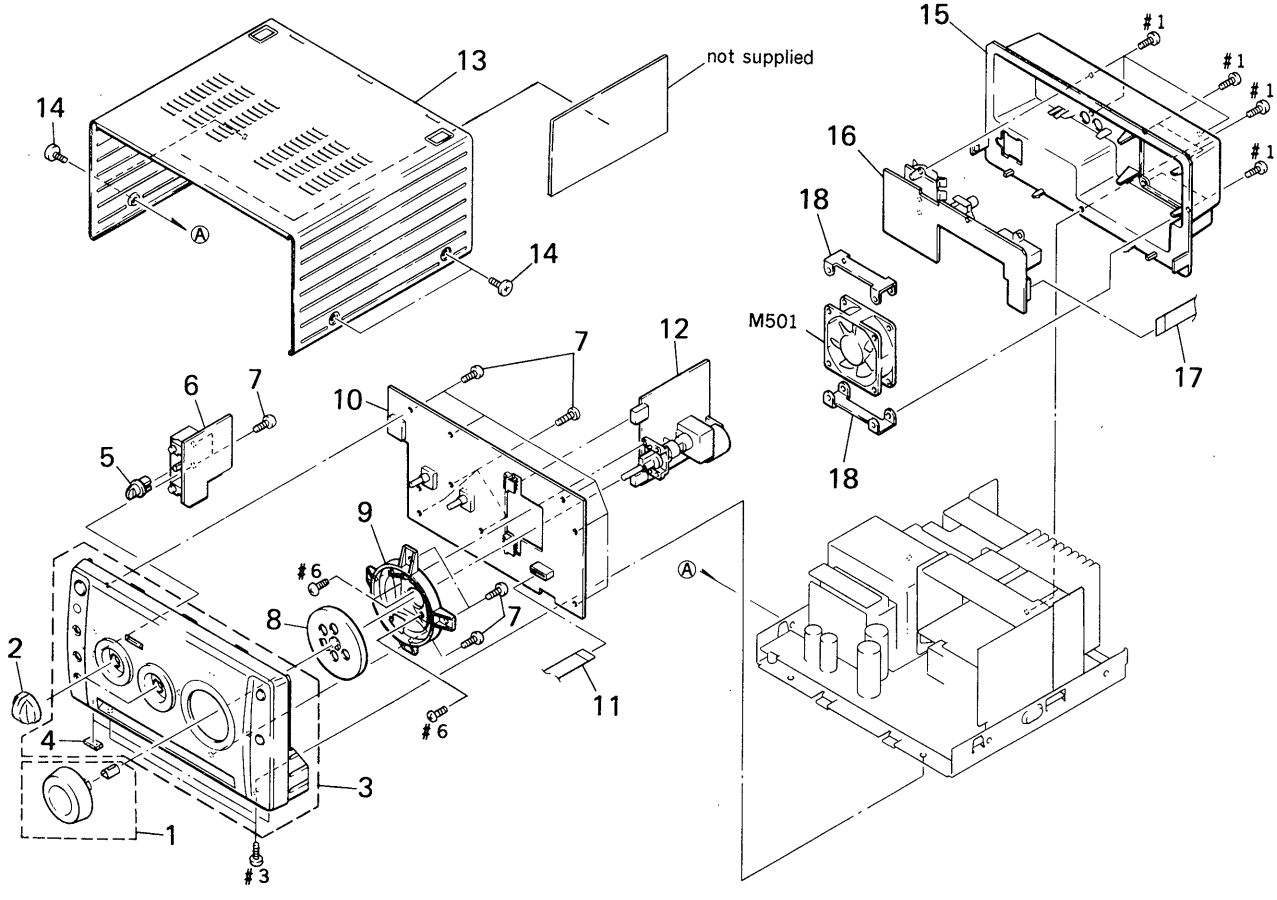
- CND : Canadian model
- G : German model
- IT : Italian model

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

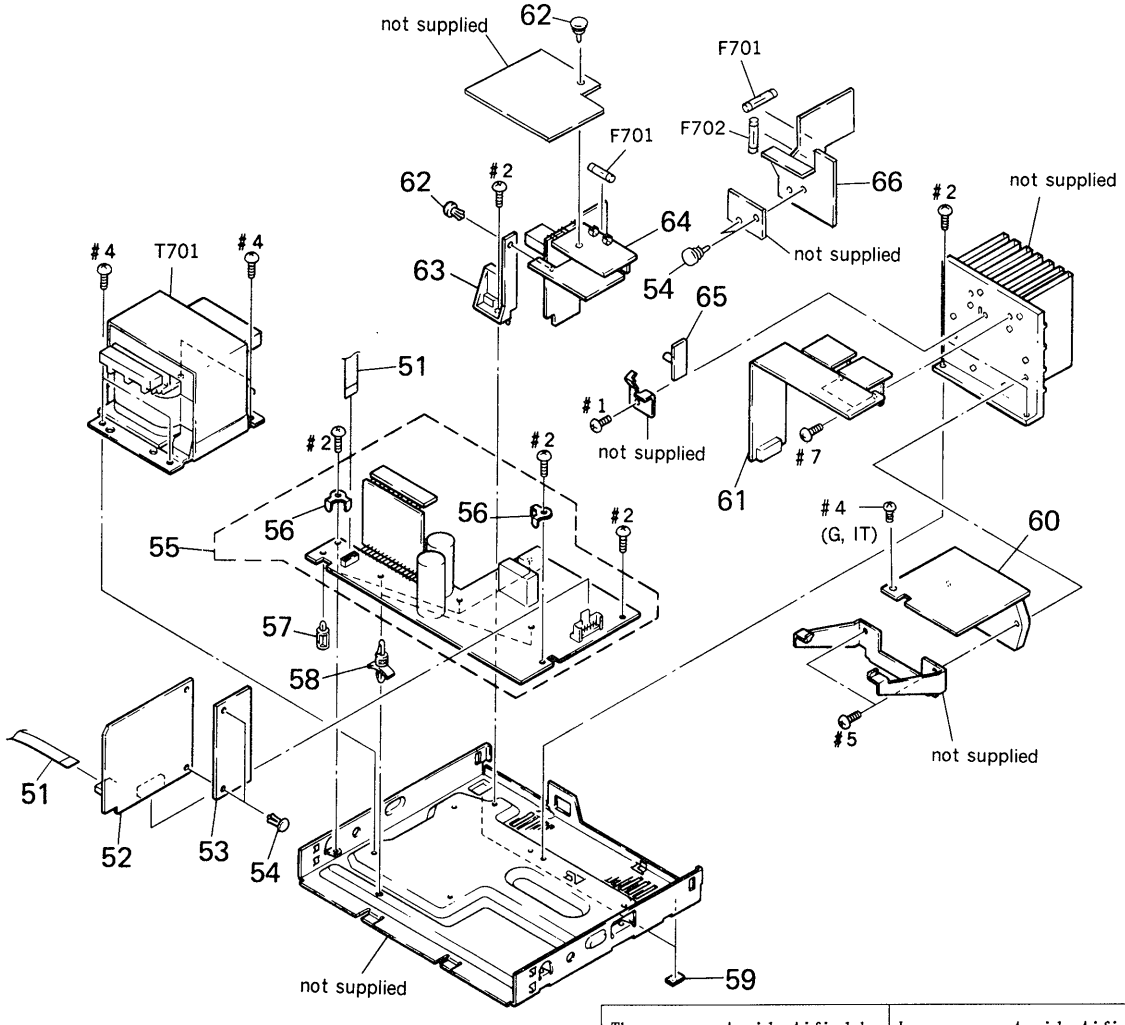
4-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	X-4942-892-1	KNOB (VOLUME) ASSY	
2	4-956-577-02	KNOB (DBFB)	
3	X-4943-415-1	PANEL ASSY, FRONT (EXCEPT CND, AEP, UK, G, IT)	
3	X-4943-416-1	PANEL ASSY, FRONT (CND, AEP, UK, G, IT)	
4	4-930-336-31	FOOT (FELT)	
5	4-932-882-21	KNOB (HP. VOL)	
* 6	1-645-247-11	MIC BOARD	
7	4-951-620-01	SCREW (2.6X8), +BVTP	
8	X-4942-896-1	VOLUME ASSY, INDICATOR	
* 9	4-954-260-01	COVER (VOLUME)	

Ref. No.	Part No.	Description	Remark
* 10	A-4360-249-A	PANEL BOARD, COMPLETE	
11	1-590-035-11	WIRE, FLAT TYPE (11 CORE)	
* 12	1-645-250-11	VOL BOARD	
* 13	3-382-491-11	CASE	
14	3-363-099-21	SCREW (CASE 3 TP2)	
* 15	4-954-256-11	PANEL, BACK (EXCEPT CND, AEP, UK, G, IT)	
* 15	4-954-256-21	PANEL, BACK (CND, AEP, UK, G, IT)	
* 16	1-645-248-11	BACK PANEL BOARD	
17	1-590-576-11	WIRE, FLAT TYPE (11 CORE)	
18	4-956-816-01	BRACKET (FAN 20A)	
M501	1-541-953-11	MOTOR, DC FAN	

4-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
51	1-590-241-11	WIRE, FLAT TYPE (9 CORE)	
* 52	A-4360-250-A	PRE AMPLIFIER BOARD, COMPLETE	
* 53	1-645-936-11	COVER BOARD	
54	4-812-134-00	RIVET NYLON, 3.5	
* 55	A-4360-253-A	MAIN BOARD, COMPLETE (CND, AEP, UK, G, IT)	
* 55	A-4360-261-A	MAIN BOARD, COMPLETE (EXCEPT CND, AEP, UK, G, IT)	
* 56	4-942-204-01	PLATE, GROUND	
* 57	3-669-610-00	SPACER	
* 58	4-924-098-11	HOLDER, PC BOARD	
59	4-930-336-21	FOOT (FELT)	
* 60	A-4360-254-A	POWER AMPLIFIER BOARD, COMPLETE (CND, AEP, UK)	
* 60	A-4360-259-A	POWER AMPLIFIER BOARD, COMPLETE (G, IT)	
* 60	A-4360-262-A	POWER AMPLIFIER BOARD, COMPLETE (EXCEPT CND, AEP, UK, G, IT)	

Ref. No.	Part No.	Description	Remark
* 61	A-4360-255-A	REAR AMPLIFIER BOARD, COMPLETE (CND, AEP, UK)	
* 61	A-4360-260-A	REAR AMPLIFIER BOARD, COMPLETE (G, IT)	
* 61	A-4360-263-A	REAR AMPLIFIER BOARD, COMPLETE (EXCEPT CND, AEP, UK, G, IT)	
62	4-812-134-11	RIVET NYLON, 3.5	
* 63	4-954-242-01	BRACKET (IN)	
* 64	1-645-254-11	POWER BOARD (CND, AEP, UK, G, IT)	
* 65	1-645-262-11	SENSOR BOARD	
* 66	1-647-358-11	POWER BOARD (EXCEPT CND, AEP, UK, G, IT)	
⚠F701	1-532-299-00	FUSE (T5A) (EXCEPT CND, AEP, UK, G, IT)	
⚠F701	1-532-286-00	FUSE (T2.5A) (AEP, UK, G, IT)	
⚠F701	1-532-747-11	FUSE, GLASS TUBE (5A) (CND)	
⚠F702	1-532-286-00	FUSE (T2.5A) (EXCEPT CND, AEP, UK, G, IT)	
⚠T701	1-423-545-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T701	1-423-546-11	TRANSFORMER, POWER (EXCEPT CND, AEP, UK, G, IT)	
⚠T701	1-423-549-11	TRANSFORMER, POWER (UK)	
⚠T701	1-423-699-11	TRANSFORMER, POWER (CND)	

SECTION 5
ELECTRICAL PARTS LIST

BACK PANEL **MAIN**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- CND : Canadian model
- G : German model
- IT : Italian model

Ref. No.	Part No.	Description				Remark
*	1-645-248-11	BACK PANEL BOARD				
		**********				
		< CAPACITOR >				
C340	1-136-165-00	FILM (G, IT)	0.1uF	5%	50V	
C341	1-136-165-00	FILM (G, IT)	0.1uF	5%	50V	
C390	1-136-165-00	FILM (G, IT)	0.1uF	5%	50V	
C391	1-136-165-00	FILM (G, IT)	0.1uF	5%	50V	
C440	1-136-163-00	FILM (G, IT)	0.068uF	5%	50V	
C441	1-136-163-00	FILM (G, IT)	0.068uF	5%	50V	
C490	1-136-163-00	FILM (G, IT)	0.068uF	5%	50V	
C491	1-136-163-00	FILM (G, IT)	0.068uF	5%	50V	
C509	1-136-153-00	FILM	0.01uF	5%	50V	
		< CONNECTOR >				
* CNJ101	1-580-740-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL)				
* CNJ102	1-568-830-11	SOCKET, CONNECTOR 11P				
CNJ301	1-568-572-11	JACK, PIN 2P (REAR SPEAKER)				
CNP404	1-691-769-11	PLUG (MICRO CONNECTOR) 7P				
* CNP502	1-564-518-11	PLUG, CONNECTOR 3P				
* CNP704	1-564-342-51	PIN, CONNECTOR 8P				
		< DIODE >				
D701	8-719-200-82	DIODE 11ES2				
D702	8-719-200-82	DIODE 11ES2				
		< RESISTOR >				
R340	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
R341	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
R390	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
R391	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
R440	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
R441	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
R490	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
R491	1-249-397-11	CARBON (G, IT)	22	5%	1/4W F	
		< TERMINAL >				
TM401	1-537-445-11	TERMINAL BOARD (SP) (FRONT SPERKER)				
**********						
*	A-4360-253-A	MAIN BOARD, COMPLETE (CND, AEP, UK, G, IT)				
*	A-4360-261-A	MAIN BOARD, COMPLETE (EXCEPT CND, AEP, UK, G, IT)				
		**********				
*	4-942-204-01	PLATE, GROUND				
		< CAPACITOR >				
C208	1-164-159-11	CERAMIC	0.1uF		50V	
C313	1-124-912-11	ELECT	330uF	20%	50V	
C363	1-124-912-11	ELECT	330uF	20%	50V	
C412	1-124-910-11	ELECT	47uF	20%	50V	
C413	1-124-916-11	ELECT	22uF	20%	63V	
C414	1-124-916-11	ELECT	22uF	20%	63V	
C463	1-124-916-11	ELECT	22uF	20%	63V	
C464	1-124-916-11	ELECT	22uF	20%	63V	
C501	1-124-907-11	ELECT	10uF	20%	50V	
C502	1-126-176-11	ELECT	220uF	20%	10V	
C503	1-126-176-11	ELECT	220uF	20%	10V	
C504	1-124-443-00	ELECT	100uF	20%	10V	
C505	1-136-169-00	FILM	0.22uF	5%	50V	
C506	1-136-169-00	FILM	0.22uF	5%	50V	
C507	1-124-903-11	ELECT	1uF	20%	50V	
C508	1-124-907-11	ELECT	10uF	20%	50V	
C510	1-124-477-11	ELECT	47uF	20%	25V	
C511	1-124-477-11	ELECT	47uF	20%	25V	
C701	1-124-557-11	ELECT	1000uF	20%	25V	

MAIN

Ref. No.	Part No.	Description			Remark
C702	1-124-463-00	ELECT	0.1uF	20%	50V
C705	1-124-907-11	ELECT	10uF	20%	50V
C711	1-102-394-11	CERAMIC	0.01uF		250V
C712	1-126-307-11	ELECT	6800uF	20%	50V
		(CND, AEP, UK, G, IT)			
C712	1-104-482-11	ELECT	4700uF	20%	63V
		(EXCEPT CND, AEP, UK, G, IT)			
C713	1-126-307-11	ELECT	6800uF	20%	50V
		(CND, AEP, UK, G, IT)			
C713	1-104-482-11	ELECT	4700uF	20%	63V
		(EXCEPT CND, AEP, UK, G, IT)			
C714	1-124-791-11	ELECT	1.0uF	20%	100V
C715	1-126-943-11	ELECT	2200uF	20%	25V
C716	1-126-943-11	ELECT	2200uF	20%	25V
C717	1-126-935-11	ELECT	470uF	20%	16V
C718	1-126-935-11	ELECT	470uF	20%	16V
C719	1-124-907-11	ELECT	10uF	20%	50V
C720	1-124-907-11	ELECT	10uF	20%	50V
C721	1-124-477-11	ELECT	47uF	20%	25V
C722	1-164-159-11	CERAMIC	0.1uF		50V
C751	1-136-165-00	FILM	0.1uF	5%	50V
C752	1-136-165-00	FILM	0.1uF	5%	50V
		< CONNECTOR >			
CNJ107	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P			
* CNJ203	1-568-828-11	SOCKET, CONNECTOR 9P			
* CNJ303	1-564-344-11	CONNECTOR, BOARD TO BOARD 8P			
* CNJ602	1-568-830-11	SOCKET, CONNECTOR 11P			
CNP402	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
* CNP403	1-564-510-11	PLUG, CONNECTOR 7P			
* CNP703	1-564-342-51	PIN, CONNECTOR 8P			
* CNP704	1-564-337-61	PIN, CONNECTOR 3P			
		< DIODE >			
D301	8-719-987-63	DIODE	1N4148M		
D302	8-719-987-63	DIODE	1N4148M		
D402	8-719-987-63	DIODE	1N4148M		
D403	8-719-987-63	DIODE	1N4148M		
D501	8-719-987-63	DIODE	1N4148M		
D502	8-719-987-63	DIODE	1N4148M		
D503	8-719-001-91	DIODE	UZL-15M		
D504	8-719-987-63	DIODE	1N4148M		
D505	8-719-987-63	DIODE	1N4148M		
D506	8-719-200-82	DIODE	11ES2		
D551	8-719-987-63	DIODE	1N4148M		
D706	8-719-200-82	DIODE	11ES2		
D707	8-719-200-82	DIODE	11ES2		
D708	8-719-200-82	DIODE	11ES2		
D709	8-719-200-82	DIODE	11ES2		

Ref. No.	Part No.	Description			Remark
D710	8-719-987-63	DIODE	1N4148M		
D711	8-719-987-63	DIODE	1N4148M		
D712	8-719-510-68	DIODE	D5SBA20F01		
		< IC >			
IC501	8-759-111-68	IC	uPC1237HA		
IC502	8-759-103-93	IC	uPC393C		
IC701	8-759-820-13	IC	L78MR06		
IC702	8-759-231-58	IC	M5F7812L		
IC703	8-759-245-86	IC	TA7912S		
		< TRANSISTOR >			
Q303	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q304	8-729-620-05	TRANSISTOR	2SC2603-EF (CND, AEP, UK, G, IT)		
Q304	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
		(EXCEPT CND, AEP, UK, G, IT)			
Q305	8-729-620-05	TRANSISTOR	2SC2603-EF (CND, AEP, UK, G, IT)		
Q305	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
		(EXCEPT CND, AEP, UK, G, IT)			
Q402	8-729-900-80	TRANSISTOR	DTC114ES		
Q403	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q501	8-729-900-63	TRANSISTOR	DTA124ES		
Q502	8-729-118-01	TRANSISTOR	2SB1116-K		
Q503	8-729-118-01	TRANSISTOR	2SB1116-K		
		< RESISTOR >			
R317	1-249-409-11	CARBON	220	5%	1/4W F
R318	1-249-409-11	CARBON	220	5%	1/4W F
⚠R319	1-215-891-11	METAL OXIDE	680	5%	2W F
R320	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-249-433-11	CARBON	22K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R367	1-249-409-11	CARBON	220	5%	1/4W F
R368	1-249-409-11	CARBON	220	5%	1/4W F
R425	1-249-417-11	CARBON	1K	5%	1/4W F
R426	1-249-439-11	CARBON	68K	5%	1/4W
R427	1-249-434-11	CARBON	27K	5%	1/4W
R428	1-249-426-11	CARBON	5.6K	5%	1/4W
R429	1-249-433-11	CARBON	22K	5%	1/4W
R430	1-249-438-11	CARBON	56K	5%	1/4W
R431	1-249-418-11	CARBON	1.2K	5%	1/4W F
R432	1-249-418-11	CARBON	1.2K	5%	1/4W F
⚠R433	1-215-892-11	METAL OXIDE	1K	5%	2W F
R480	1-249-437-11	CARBON	47K	5%	1/4W
R481	1-249-418-11	CARBON	1.2K	5%	1/4W F
R482	1-249-418-11	CARBON	1.2K	5%	1/4W F
R501	1-249-435-11	CARBON	33K	5%	1/4W
R502	1-249-441-11	CARBON	100K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-441-11	CARBON	100K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R505	1-249-438-11	CARBON	56K	5% 1/4W	
R506	1-249-434-11	CARBON	27K	5% 1/4W	
R507	1-249-434-11	CARBON	27K	5% 1/4W	
R508	1-249-429-11	CARBON	10K	5% 1/4W	
R509	1-249-429-11	CARBON	10K	5% 1/4W	
R510	1-249-429-11	CARBON	10K	5% 1/4W	
R511	1-249-417-11	CARBON	1K	5% 1/4W	F
R512	1-249-405-11	CARBON	100	5% 1/4W	F
R513	1-249-426-11	CARBON	5.6K	5% 1/4W	
R514	1-249-441-11	CARBON	100K	5% 1/4W	
R515	1-249-426-11	CARBON	5.6K	5% 1/4W	
R516	1-249-441-11	CARBON	100K	5% 1/4W	
R517	1-249-426-11	CARBON	5.6K	5% 1/4W	
R551	1-249-435-11	CARBON	33K	5% 1/4W	
⚠R701	1-212-934-00	FUSIBLE	1	5% 1/2W	F
⚠R702	1-212-934-00	FUSIBLE	1	5% 1/2W	F
⚠R706	1-212-934-00	FUSIBLE	1	5% 1/2W	F
⚠R707	1-212-934-00	FUSIBLE	1	5% 1/2W	F
R708	1-249-431-11	CARBON	15K	5% 1/4W	
R709	1-249-431-11	CARBON	15K	5% 1/4W	
		< RELAY >			
RY301	1-515-503-00	RELAY			
RY401	1-515-765-11	RELAY			
**********					
*	1-645-247-11	MIC BOARD			
		*********			
		< CAPACITOR >			
C201	1-124-257-00	ELECT	2.2uF	20%	50V
C202	1-162-294-31	CERAMIC	0.001uF	10%	50V
C203	1-162-219-31	CERAMIC	68PF	5%	50V
C204	1-162-284-31	CERAMIC	150PF	10%	50V
C205	1-124-465-00	ELECT	0.47uF	20%	50V
C206	1-124-477-11	ELECT	47uF	20%	25V
C207	1-124-477-11	ELECT	47uF	20%	25V
C434	1-162-286-31	CERAMIC (G, IT)	220PF	10%	50V
C484	1-162-286-31	CERAMIC (G, IT)	220PF	10%	50V
		< JACK >			
CNJ201	1-695-804-11	JACK (MIX MIC)			
* CNJ202	1-568-828-11	SOCKET, CONNECTOR 9P			
CNJ401	1-695-804-11	JACK (HEADPHONES)			
		< IC >			
IC201	8-759-634-50	IC M5218AL			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R201	1-249-429-11	CARBON	10K	5% 1/4W	
R202	1-249-417-11	CARBON	1K	5% 1/4W	F
R203	1-249-441-11	CARBON	100K	5% 1/4W	
R204	1-249-412-11	CARBON	390	5% 1/4W	F
R205	1-249-441-11	CARBON	100K	5% 1/4W	
R206	1-249-409-11	CARBON	220	5% 1/4W	F
		< VARIABLE RESISTOR >			
RV201	1-241-140-11	RES, VAR, CARBON 10K (MIC LEVEL)			
**********					
*	A-4360-249-A	PANEL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C102	1-124-257-00	ELECT	2.2uF	20%	50V
C103	1-162-282-31	CERAMIC	100PF	10%	50V
C104	1-162-282-31	CERAMIC	100PF	10%	50V
C105	1-124-257-00	ELECT	2.2uF	20%	50V
C106	1-124-477-11	ELECT	47uF	20%	25V
C107	1-136-168-00	FILM	0.18uF	5%	50V
C108	1-136-169-00	FILM	0.22uF	5%	50V
C111	1-126-160-11	ELECT	1uF	20%	50V
C112	1-162-282-31	CERAMIC	100PF	10%	50V
C152	1-124-257-00	ELECT	2.2uF	20%	50V
C153	1-162-282-31	CERAMIC	100PF	10%	50V
C154	1-162-282-31	CERAMIC	100PF	10%	50V
C155	1-124-257-00	ELECT	2.2uF	20%	50V
C156	1-124-477-11	ELECT	47uF	20%	25V
C157	1-136-168-00	FILM	0.18uF	5%	50V
C158	1-136-169-00	FILM	0.22uF	5%	50V
C161	1-126-160-11	ELECT	1uF	20%	50V
C162	1-162-282-31	CERAMIC	100PF	10%	50V
C601	1-136-165-00	FILM	0.1uF	5%	50V
C602	1-162-306-11	CERAMIC	0.01uF	20%	16V
C603	1-162-306-11	CERAMIC	0.01uF	20%	16V
C604	1-124-477-11	ELECT	47uF	20%	25V
C607	1-124-477-11	ELECT	47uF	20%	25V
C608	1-164-159-11	CERAMIC	0.1uF		50V
C609	1-162-306-11	CERAMIC	0.01uF	20%	16V
C703	1-162-294-31	CERAMIC	0.001uF	10%	50V
C704	1-162-294-31	CERAMIC	0.001uF	10%	50V
C706	1-124-907-11	ELECT	10uF	20%	50V
		< VIBRTOR >			
CF601	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

PANEL

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNJ113	1-568-318-11	PLUG, CONNECTOR 6P	
* CNJ114	1-568-318-11	PLUG, CONNECTOR 6P	
* CNJ601	1-568-830-11	SOCKET, CONNECTOR 11P	
		< DIODE >	
D101	8-719-987-63	DIODE 1N4148M	
D151	8-719-987-63	DIODE 1N4148M	
D601	8-719-200-82	DIODE 11ES2	
D602	8-719-987-63	DIODE 1N4148M	
D603	8-719-987-63	DIODE 1N4148M	
D605	8-719-987-63	DIODE 1N4148M	
D606	8-719-026-64	DIODE SML1260S (ON/STANDBY)	
D607	8-719-026-64	DIODE SML1260S (MUTING -20dB)	
D608	8-719-026-64	DIODE SML1260S (REAR SPEAKER)	
D609	8-719-026-72	DIODE SML1860A (DYNAMIC BASS SYSTEM)	
D610	8-719-026-72	DIODE SML1860A (DYNAMIC BASS SYSTEM)	
D611	8-719-026-72	DIODE SML1860A (DYNAMIC BASS SYSTEM)	
D612	8-719-987-63	DIODE 1N4148M	
D613	8-719-987-63	DIODE 1N4148M	
D703	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC102	8-759-634-51	IC M5218AP	
IC601	8-759-163-92	IC MC68HC05P9SC405648B	
IC603	8-749-923-34	PHOTO DIODE GP1U59XB	
		< TRANSISTOR >	
Q102	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q103	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q152	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q153	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q601	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q602	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q605	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q606	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q608	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q609	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q610	8-729-900-63	TRANSISTOR DTA124ES	
Q611	8-729-900-36	TRANSISTOR DTC124ES	
		< RESISTOR >	
R109	1-249-417-11	CARBON 1K 5% 1/4W F	
R110	1-249-441-11	CARBON 100K 5% 1/4W	
R111	1-249-432-11	CARBON 18K 5% 1/4W	
R113	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R114	1-249-437-11	CARBON 47K 5% 1/4W	
R115	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R116	1-249-412-11	CARBON 390 5% 1/4W F	
R117	1-249-417-11	CARBON 1K 5% 1/4W F	
R118	1-247-887-00	CARBON 220K 5% 1/4W	
R159	1-249-417-11	CARBON 1K 5% 1/4W F	
R160	1-249-441-11	CARBON 100K 5% 1/4W	
R161	1-249-432-11	CARBON 18K 5% 1/4W	
R163	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R164	1-249-437-11	CARBON 47K 5% 1/4W	
R165	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R166	1-249-412-11	CARBON 390 5% 1/4W F	
R167	1-249-417-11	CARBON 1K 5% 1/4W F	
R168	1-247-887-00	CARBON 220K 5% 1/4W	
R600	1-249-435-11	CARBON 33K 5% 1/4W	
R601	1-249-429-11	CARBON 10K 5% 1/4W	
R602	1-249-437-11	CARBON 47K 5% 1/4W	
R605	1-247-903-00	CARBON 1M 5% 1/4W	
R606	1-249-429-11	CARBON 10K 5% 1/4W	
R607	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R608	1-249-393-11	CARBON 10 5% 1/4W F	
R609	1-249-429-11	CARBON 10K 5% 1/4W	
R610	1-249-429-11	CARBON 10K 5% 1/4W	
R611	1-249-429-11	CARBON 10K 5% 1/4W	
R612	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R613	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R614	1-249-428-11	CARBON 8.2K 5% 1/4W F	
R615	1-249-429-11	CARBON 10K 5% 1/4W	
R616	1-249-429-11	CARBON 10K 5% 1/4W	
R617	1-249-413-11	CARBON 470 5% 1/4W F	
R618	1-249-429-11	CARBON 10K 5% 1/4W	
R619	1-249-429-11	CARBON 10K 5% 1/4W	
R621	1-249-417-11	CARBON 1K 5% 1/4W F	
R622	1-249-429-11	CARBON 10K 5% 1/4W	
R625	1-249-417-11	CARBON 1K 5% 1/4W F	
R626	1-249-414-11	CARBON 560 5% 1/4W F	
R627	1-249-429-11	CARBON 10K 5% 1/4W	
R629	1-249-438-11	CARBON 56K 5% 1/4W	
R630	1-249-441-11	CARBON 100K 5% 1/4W	
R631	1-249-417-11	CARBON 1K 5% 1/4W F	
R703	1-249-417-11	CARBON 1K 5% 1/4W F	
R704	1-249-429-11	CARBON 10K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV101	1-241-353-11	RES, VAR, CARBON 100K/100K (LEVEL)	
RV102	1-241-353-11	RES, VAR, CARBON 100K/100K (FREQUENCY)	
		< SWITCH >	
S601	1-572-184-11	SWITCH, KEYBOARD (SYSTEM POWER)	
S602	1-572-184-11	SWITCH, KEYBOARD (DINAMIC BASS SYSTEM)	
S603	1-572-184-11	SWITCH, KEYBOARD (MUTING -20dB)	

Ref. No.	Part No.	Description			Remark
S604	1-572-184-11	SWITCH, KEYBOARD (REAR SPEAKERS)			
**********					
*	A-4360-254-A	POWER AMPLIFIER BOARD, COMPLETE (CND, AEP, UK)			
*	A-4360-259-A	POWER AMPLIFIER BOARD, COMPLETE (G, IT)			
*	A-4360-262-A	POWER AMPLIFIER BOARD, COMPLETE (EXCEPT CND, AEP, UK, G, IT)			
		**********			
		< CAPACITOR >			
C401	1-124-257-00	ELECT	2.2uF	20%	50V
C402	1-162-286-31	CERAMIC	220PF	10%	50V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-124-477-11	ELECT	47uF	20%	25V
C405	1-124-910-11	ELECT	47uF	20%	50V
C406	1-124-572-11	ELECT	100uF	20%	63V
C407	1-124-791-11	ELECT	1.0uF	20%	100V
C408	1-124-916-11	ELECT	22uF	20%	63V
C409	1-136-165-00	FILM	0.1uF	5%	50V
C410	1-136-163-00	FILM	0.068uF	5%	50V
C411	1-136-163-00	FILM	0.068uF	5%	50V
C431	1-162-306-11	CERAMIC (G, IT)	0.01uF	20%	16V
C432	1-162-306-11	CERAMIC (G, IT)	0.01uF	20%	16V
C433	1-162-306-11	CERAMIC (G, IT)	0.01uF	20%	16V
C451	1-124-257-00	ELECT	2.2uF	20%	50V
C452	1-162-286-31	CERAMIC	220PF	10%	50V
C453	1-162-282-31	CERAMIC	100PF	10%	50V
C454	1-124-477-11	ELECT	47uF	20%	25V
C455	1-124-910-11	ELECT	47uF	20%	50V
C456	1-124-572-11	ELECT	100uF	20%	63V
C457	1-124-791-11	ELECT	1.0uF	20%	100V
C460	1-136-163-00	FILM	0.068uF	5%	50V
C461	1-136-163-00	FILM	0.068uF	5%	50V
		< DIODE >			
D401	8-719-987-63	DIODE 1N4148M			
D451	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC401	8-749-921-68	IC STK-4231MK2			
		< COIL >			
L401	1-420-872-00	COIL, AIR CORE			
L451	1-420-872-00	COIL, AIR CORE			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q401	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q451	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R401	1-249-417-11	CARBON	1K	5%	1/4W F
R402	1-249-438-11	CARBON	56K	5%	1/4W
R403	1-249-415-11	CARBON	680	5%	1/4W F
R404	1-249-438-11	CARBON	56K	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-249-429-11	CARBON	10K	5%	1/4W
R407	1-249-429-11	CARBON	10K	5%	1/4W
R408	1-249-429-11	CARBON	10K	5%	1/4W
⚠R409	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R410	1-217-156-00	METAL PLATE	0.22		
R411	1-249-417-11	CARBON	1K	5%	1/4W F
R412	1-249-431-11	CARBON	15K	5%	1/4W
R413	1-249-441-11	CARBON	100K	5%	1/4W
R414	1-249-421-11	CARBON	2.2K	5%	1/4W F
R415	1-249-421-11	CARBON	2.2K	5%	1/4W F
R416	1-249-421-11	CARBON	2.2K	5%	1/4W F
R417	1-249-421-11	CARBON	2.2K	5%	1/4W F
R418	1-249-397-11	CARBON	22	5%	1/4W F
R419	1-249-397-11	CARBON	22	5%	1/4W F
R420	1-249-397-11	CARBON	22	5%	1/4W F
R421	1-249-397-11	CARBON	22	5%	1/4W F
R422	1-249-429-11	CARBON	10K	5%	1/4W
R423	1-247-881-00	CARBON	120K	5%	1/4W
R424	1-249-437-11	CARBON	47K	5%	1/4W
R451	1-249-417-11	CARBON	1K	5%	1/4W F
R452	1-249-438-11	CARBON	56K	5%	1/4W
R453	1-249-415-11	CARBON	680	5%	1/4W F
R454	1-249-438-11	CARBON	56K	5%	1/4W
R455	1-249-429-11	CARBON	10K	5%	1/4W
R456	1-249-429-11	CARBON	10K	5%	1/4W
R457	1-249-429-11	CARBON	10K	5%	1/4W
R458	1-249-429-11	CARBON	10K	5%	1/4W
⚠R459	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R460	1-217-156-00	METAL PLATE	0.22		
R461	1-249-417-11	CARBON	1K	5%	1/4W F
R462	1-249-431-11	CARBON	15K	5%	1/4W
R463	1-249-441-11	CARBON	100K	5%	1/4W
R468	1-249-397-11	CARBON	22	5%	1/4W F
R469	1-249-397-11	CARBON	22	5%	1/4W F
R470	1-249-397-11	CARBON	22	5%	1/4W F
R471	1-249-397-11	CARBON	22	5%	1/4W F
**********					

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POWER | PRE AMPLIFIER

Ref. No.	Part No.	Description	Remark
*	1-645-254-11	POWER BOARD (CND, AEP, UK, G, IT)	
*	1-647-358-11	POWER BOARD (EXCEPT CND, AEP, UK, G, IT)	
		**********	
*	1-533-213-31	HOLDER, FUSE (CND)	
*	1-533-293-11	HOLDER, FUSE (EXCEPT CND)	
		< CAPACITOR >	
⚠C707	1-161-744-00	CERAMIC 0.01uF	400V
⚠C723	1-161-744-00	CERAMIC 0.01uF (CND, AEP, UK, G, IT)	400V
		< JACK >	
⚠CNJ701	1-526-930-11	INLET, AC (~ AC IN) (CND)	
⚠CNJ701	1-526-931-11	INLET, AC (~ AC IN) (EXCEPT CND)	
		< DIODE >	
D704	8-719-987-63	DIODE 1N4148M	
D705	8-719-987-63	DIODE 1N4148M	
		< FUSE >	
⚠F701	1-532-286-00	FUSE (T2.5A) (AEP, UK, G, IT)	
⚠F701	1-532-299-00	FUSE (T5A) (EXCEPT CND, AEP, UK, G, IT)	
⚠F701	1-532-747-11	FUSE, GLASS TUBE (5A) (CND)	
⚠F702	1-532-286-00	FUSE (T2.5A) (EXCEPT CND, AEP, UK, G, IT)	
		< TRANSISTOR >	
Q603	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< RELAY >	
⚠RY701	1-515-720-11	RELAY	
		< SWITCH >	
⚠S701	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (EXCEPT CND, AEP, UK, G, IT)	

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*	A-4360-250-A	PRE AMPLIFIER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-124-257-00	ELECT	2.2uF	20%	50V
C109	1-124-234-00	ELECT	22uF	20%	16V
C151	1-124-257-00	ELECT	2.2uF	20%	50V
C159	1-124-234-00	ELECT	22uF	20%	16V
C301	1-124-257-00	ELECT	2.2uF	20%	50V
C302	1-162-282-31	CERAMIC	100PF	10%	50V
C303	1-124-234-00	ELECT	22uF	20%	16V
C304	1-124-257-00	ELECT	2.2uF	20%	50V
C351	1-124-257-00	ELECT	2.2uF	20%	50V
C352	1-162-282-31	CERAMIC	100PF	10%	50V
C353	1-124-234-00	ELECT	22uF	20%	16V
C354	1-124-257-00	ELECT	2.2uF	20%	50V
		< CONNECTOR >			
* CNJ103	1-568-830-11	SOCKET, CONNECTOR 11P			
* CNJ104	1-568-828-11	SOCKET, CONNECTOR 9P			
* CNJ105	1-573-299-11	CONNECTOR, BOARD TO BOARD 10P			
* CNJ106	1-562-368-21	CONNECTOR, BOARD TO BOARD 8P			
		< DIODE >			
D303	8-719-987-63	DIODE 1N4148M			
D304	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC101	8-759-634-51	IC M5218AP			
IC301	8-759-634-51	IC M5218AP			
		< TRANSISTOR >			
Q101	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q151	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q306	8-729-900-63	TRANSISTOR DTA124ES			
Q351	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q352	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q607	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		< RESISTOR >			
R101	1-249-421-11	CARBON	2.2K	5%	1/4W F
R102	1-249-433-11	CARBON	22K	5%	1/4W
R103	1-249-404-00	CARBON	82	5%	1/4W
R104	1-249-425-11	CARBON	4.7K	5%	1/4W F
R105	1-249-425-11	CARBON	4.7K	5%	1/4W F
R106	1-249-425-11	CARBON	4.7K	5%	1/4W F
R107	1-249-425-11	CARBON	4.7K	5%	1/4W F
R108	1-249-441-11	CARBON	100K	5%	1/4W
R119	1-249-417-11	CARBON	1K	5%	1/4W F
R151	1-249-421-11	CARBON	2.2K	5%	1/4W F
R152	1-249-433-11	CARBON	22K	5%	1/4W
R153	1-249-404-00	CARBON	82	5%	1/4W
R154	1-249-425-11	CARBON	4.7K	5%	1/4W F
R155	1-249-425-11	CARBON	4.7K	5%	1/4W F
R156	1-249-425-11	CARBON	4.7K	5%	1/4W F
R157	1-249-425-11	CARBON	4.7K	5%	1/4W F
R158	1-249-441-11	CARBON	100K	5%	1/4W
R169	1-249-417-11	CARBON	1K	5%	1/4W F

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Ref. No.	Part No.	Description				Remark
R301	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R302	1-249-433-11	CARBON	22K	5%	1/4W	
R303	1-249-410-11	CARBON	270	5%	1/4W	F
R304	1-249-437-11	CARBON	47K	5%	1/4W	
R305	1-249-431-11	CARBON	15K	5%	1/4W	
R306	1-249-437-11	CARBON	47K	5%	1/4W	
R307	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R308	1-249-429-11	CARBON	10K	5%	1/4W	
R323	1-249-441-11	CARBON	100K	5%	1/4W	
R324	1-249-429-11	CARBON	10K	5%	1/4W	
R351	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R352	1-249-433-11	CARBON	22K	5%	1/4W	
R353	1-249-410-11	CARBON	270	5%	1/4W	F
R354	1-249-437-11	CARBON	47K	5%	1/4W	
R355	1-249-431-11	CARBON	15K	5%	1/4W	
R356	1-249-437-11	CARBON	47K	5%	1/4W	
R357	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R358	1-249-429-11	CARBON	10K	5%	1/4W	
R620	1-249-441-11	CARBON	100K	5%	1/4W	
R623	1-249-429-11	CARBON	10K	5%	1/4W	
R624	1-249-429-11	CARBON	10K	5%	1/4W	

****

* A-4360-255-A REAR AMPLIFIER BOARD, COMPLETE (CND, AEP, UK)

* A-4360-260-A REAR AMPLIFIER BOARD, COMPLETE (G, IT)

* A-4360-263-A REAR AMPLIFIER BOARD, COMPLETE (EXCEPT CND, AEP, UK, G, IT)

****

< CAPACITOR >

C305	1-124-257-00	ELECT	2.2uF	20%	50V
C306	1-162-286-31	CERAMIC	220PF	10%	50V
C307	1-124-910-11	ELECT	47uF	20%	50V
C308	1-162-282-31	CERAMIC (EXCEPT G, IT)	100PF	10%	50V
C308	1-162-286-31	CERAMIC (G, IT)	220PF	10%	50V
C309	1-126-163-11	ELECT	4.7uF	20%	50V
C310	1-136-165-00	FILM	0.1uF	5%	50V
C311	1-136-165-00	FILM	0.1uF	5%	50V
C312	1-124-915-11	ELECT	10uF	20%	63V
C355	1-124-257-00	ELECT	2.2uF	20%	50V
C356	1-162-286-31	CERAMIC	220PF	10%	50V
C357	1-124-910-11	ELECT	47uF	20%	50V
C358	1-162-282-31	CERAMIC (EXCEPT G, IT)	100PF	10%	50V
C358	1-162-286-31	CERAMIC (G, IT)	220PF	10%	50V
C359	1-126-163-11	ELECT	4.7uF	20%	50V
C360	1-136-165-00	FILM	0.1uF	5%	50V
C361	1-136-165-00	FILM	0.1uF	5%	50V
C362	1-124-915-11	ELECT	10uF	20%	63V

< CONNECTOR >

* CNJ108	1-564-344-11	CONNECTOR, BOARD TO BOARD 8P
* CNJ302	1-562-368-21	CONNECTOR, BOARD TO BOARD 8P
* CNP501	1-564-337-51	PIN, CONNECTOR 3P

< DIODE >

D507	8-719-987-63	DIODE 1N4148M

< IC >

IC302	8-759-502-32	IC SI18752N
IC352	8-759-502-32	IC SI18752N

< RESISTOR >

R309	1-247-887-00	CARBON	220K	5%	1/4W	
R310	1-249-437-11	CARBON	47K	5%	1/4W	
R311	1-249-437-11	CARBON	47K	5%	1/4W	
R312	1-249-437-11	CARBON	47K	5%	1/4W	
R313	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R314	1-247-883-00	CARBON	150K	5%	1/4W	
R315	1-249-397-11	CARBON	22	5%	1/4W	F
R316	1-249-397-11	CARBON	22	5%	1/4W	F
R359	1-247-887-00	CARBON	220K	5%	1/4W	
R360	1-249-437-11	CARBON	47K	5%	1/4W	
R361	1-249-437-11	CARBON	47K	5%	1/4W	
R362	1-249-437-11	CARBON	47K	5%	1/4W	
R363	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R364	1-247-883-00	CARBON	150K	5%	1/4W	
R365	1-249-397-11	CARBON	22	5%	1/4W	F
R366	1-249-397-11	CARBON	22	5%	1/4W	F
R518	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R519	1-249-441-11	CARBON	100K	5%	1/4W	

****

* 1-645-262-11 SENSOR BOARD

****

< CAPACITOR >

C512	1-164-159-11	CERAMIC	0.1uF		50V

< IC >

IC503	8-759-947-34	IC LM35DZ

****

VOL

Ref. No.	Part No.	Description			Remark
*	1-645-250-11	VOL BOARD			
		*********			
		< CAPACITOR >			
C606	1-162-306-11	CERAMIC	0.01uF	20%	16V
C610	1-126-157-11	ELECT	10uF	20%	16V
		< CONNECTOR >			
* CNJ109	1-568-828-11	SOCKET, CONNECTOR 9P			
CNJ110	1-568-317-11	SOCKET, CONNECTOR 6P			
CNJ111	1-568-317-11	SOCKET, CONNECTOR 6P			
* CNP101	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D614	8-719-200-82	DIODE 11ES2			
		< IC >			
IC602	8-759-820-62	IC LB1639			
		< VARIABLE RESISTOR >			
RV103	1-223-175-11	RES, VAR, CARBON 10K/100KX4 (VOLUME)			
**********					
		MISCELLANEOUS			
		************			
11	1-590-035-11	WIRE, FLAT TYPE (11 CORE)			
17	1-590-576-11	WIRE, FLAT TYPE (11 CORE)			
51	1-590-241-11	WIRE, FLAT TYPE (9 CORE)			
M501	1-541-953-11	MOTOR, DC FAN			
⚠T701	1-423-545-11	TRANSFORMER, POWER (AEP, G, IT)			
⚠T701	1-423-546-11	TRANSFORMER, POWER (EXCEPT CND, AEP, UK, G, IT)			
⚠T701	1-423-549-11	TRANSFORMER, POWER (UK)			
⚠T701	1-423-699-11	TRANSFORMER, POWER (CND)			
**********					
		************************			
		HARDWARE LIST			
		************************			
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
#2	7-682-548-04	SCREW +BVTT 3X8 (S)			
#3	7-682-547-09	SCREW +BVTT 3X6 (S)			
#4	7-685-871-01	SCREW +BVTT 3X6 (S)			
#5	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3			
#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
#7	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3			

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-957-617-12

Sony Corporation
Audio Group

English
93E04039-1
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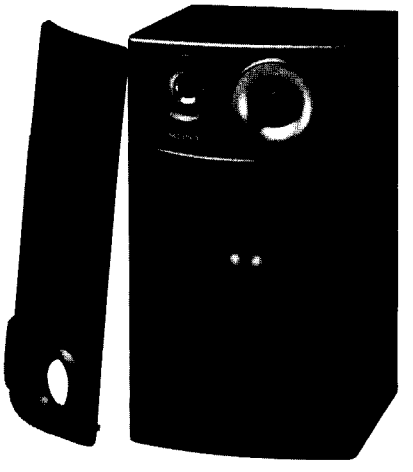
Published by Audio Sector Quality Assurance Dept.

SS-H6800/H6800C/H6800E

SERVICE MANUAL



Canadian Model
SS-H6800C

AEP Model
SS-H6800

E Model
SS-H6800E

Tourist Model
SS-H6800E

- **SS-H6800/H6800C is the speaker system in MHC-6800**
- **SS-H6800E is the speaker system in FH-E9X**

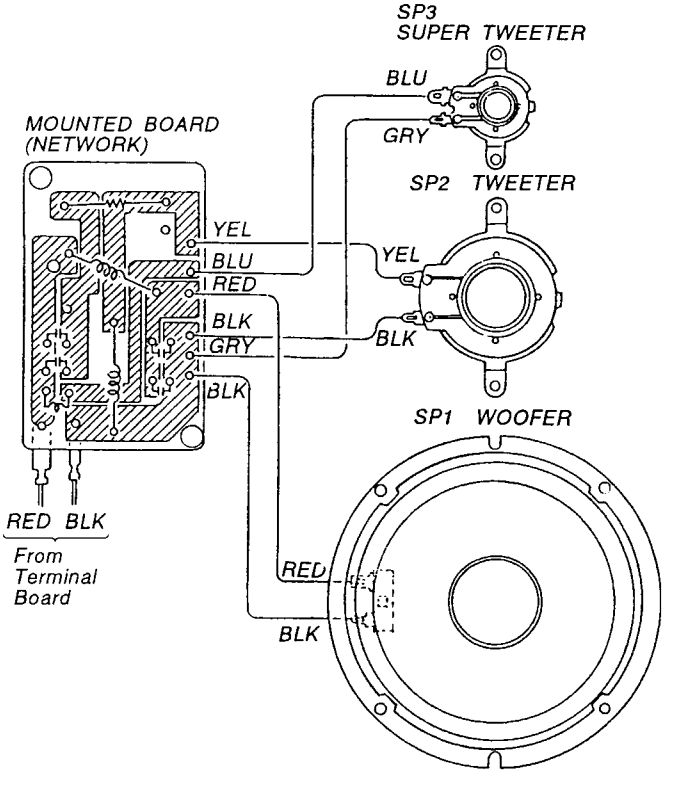
Photo: Left channel speaker SS-H6800E

SPECIFICATIONS

Speaker system
3-way, magnetic shielded
Speaker units
Woofer : 17 cm (6 3/4 in.), cone type
Tweeter : 3 cm (1 1/4 in.), soft dome type
Super tweeter : 1.3 cm (1/2 in.), soft dome type
Power handling capacity
Maximum input power
160W
Sensitivity
89 dB/W/m
Effective frequency range
40-40 kHz
Rated impedance
6 ohms
Dimensions
Approx. 220 × 390 × 280 mm (w/h/d)
(8 3/4 × 15 3/8 × 11 1/8 in.)
Weight
Approx. 7.5 kg (16 lb 9 oz)

Design and specifications are subject to change without notice.

SECTION 1
CONNECTION



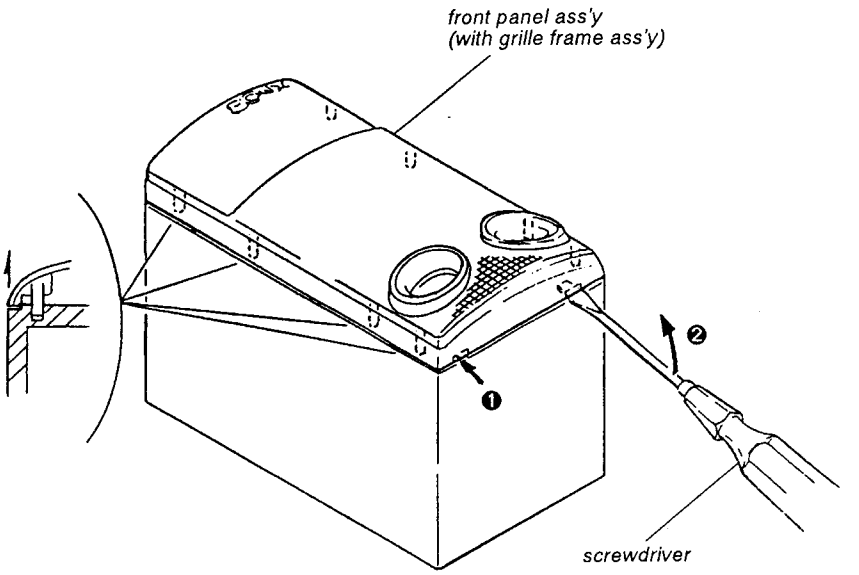
SPEAKER SYSTEM

SONY®

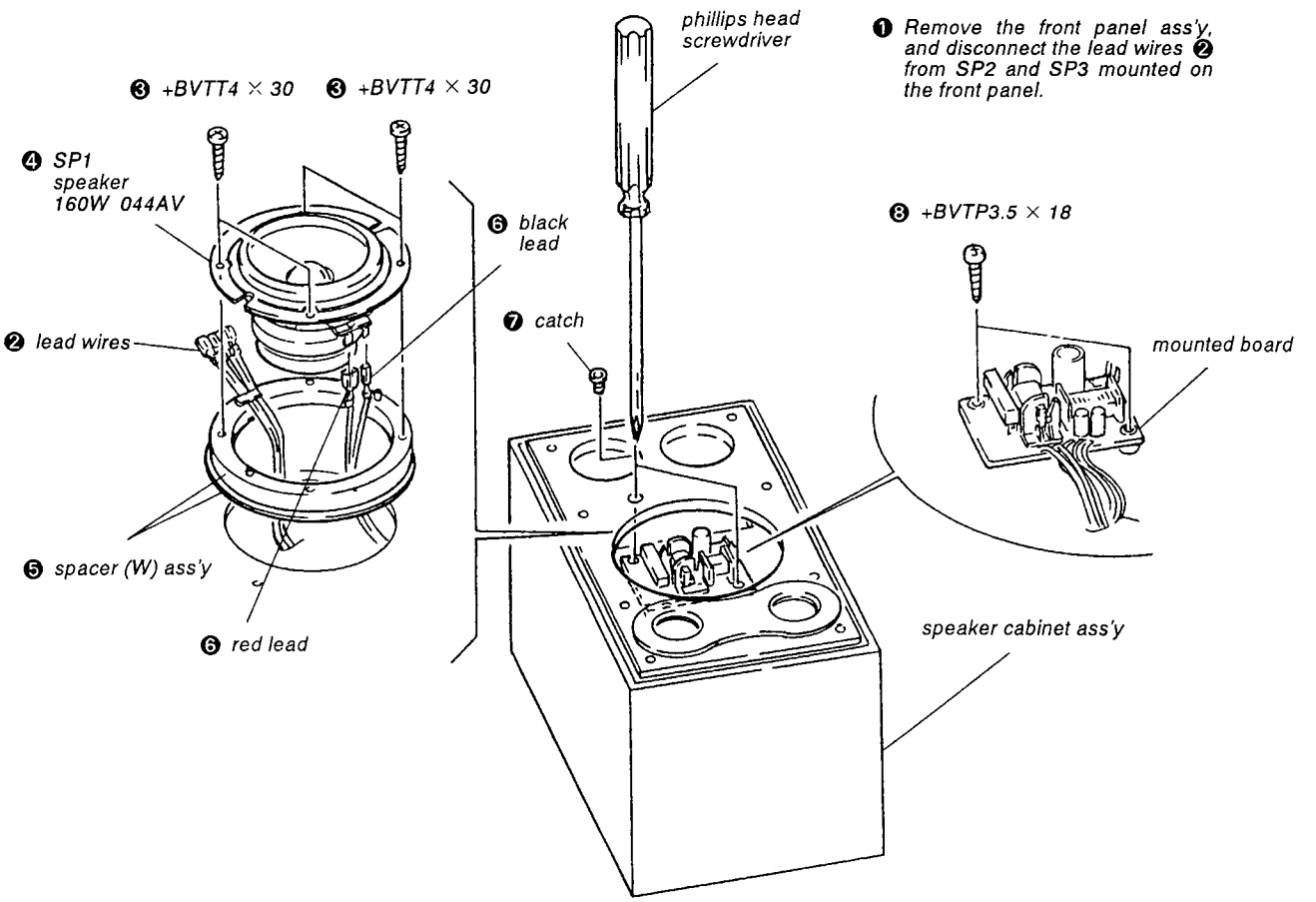
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.
Note: Illustration: SS-H6800C

FRONT PANEL ASSEMBLY



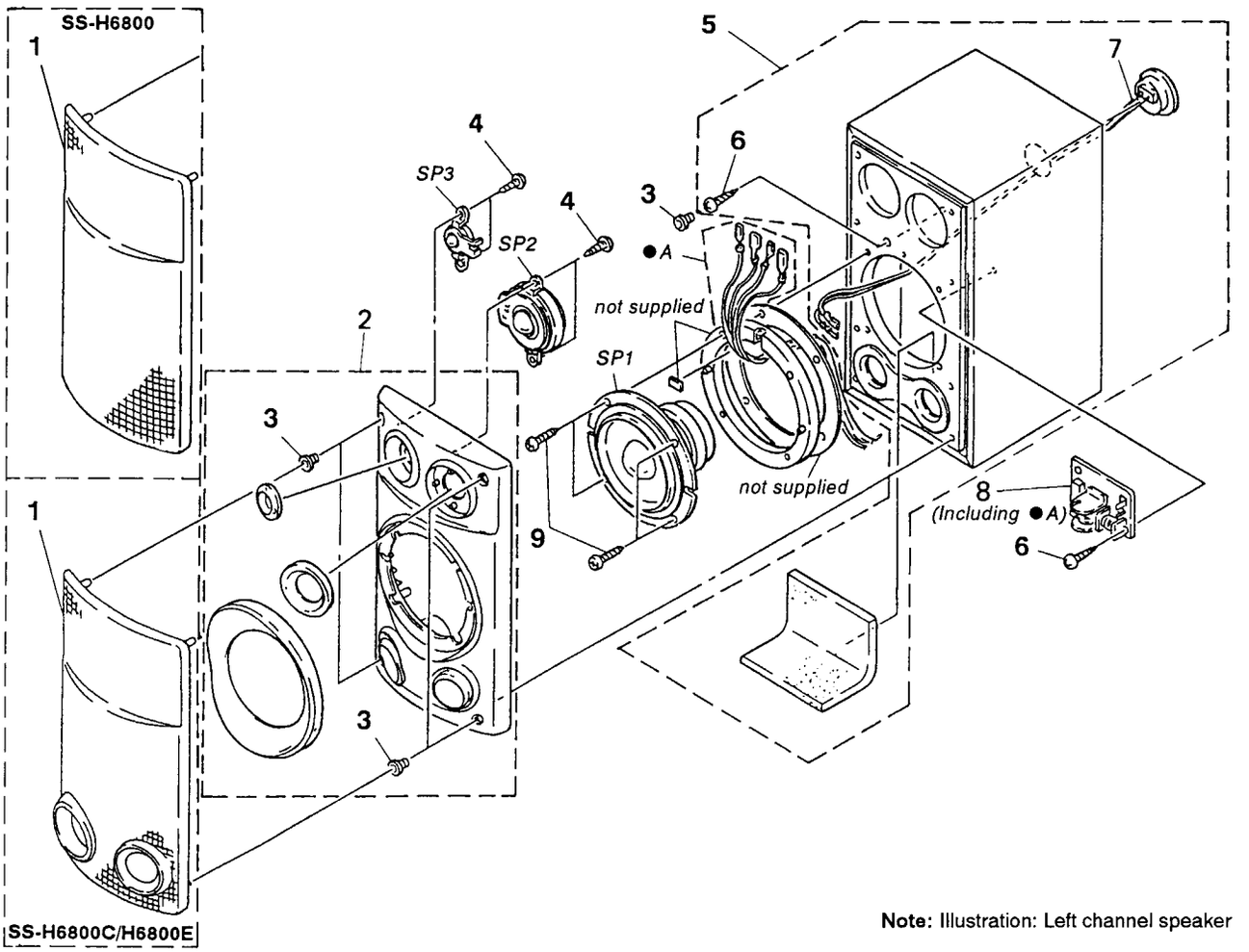
SP1, MOUNTED BOARD



SECTION 3
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.



Note: Illustration: Left channel speaker

Ref. No.	Part No.	Description	Remark
1	X-4942-882-1	FRAME ASSY, GRILLE (H6800C, H6800E)	
1	X-4943-396-1	FRAME ASSY, GRILLE (H6800)	
2	X-4942-880-1	PANEL (R) ASSY, FRONT	
2	X-4942-881-1	PANEL (L) ASSY, FRONT	
3	4-912-253-01	CATCHER	
4	7-685-662-79	SCREW +BVTP4X14 TYPE 2 IT-3	
5	X-4943-589-1	CABINET ASSY, SPEAKER (H6800:AEP, H6800C, H6800E)	
5	X-4943-604-1	CABINET ASSY, SPEAKER (H6800:Germany)	
6	4-949-145-01	SCREW (3.5X18), TAPPING	
7	1-590-443-21	CORD, CONNECTION	
8	1-588-459-11	MOUNTED PC BONTED (NETWORK)	
9	7-685-166-01	SCREW +P4X30 TYPE 4	
SP1	1-504-236-11	SPEAKER (160W 044AV) (WOOFER)	
SP2	1-504-132-11	SPEAKER (3CM) (TWEETER)	
SP3	1-504-133-11	SPEAKER (1.3CM) (SUPER TWEETER)	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-556-650-00	CORD, SPEAKER (H6800)	
	3-756-728-11	MANUAL, INSTRUCTION (H6800)	
*	4-955-212-01	CUSHION (H6800)	
	4-957-152-01	INDIVIDUAL CARTON (H6800)	

9-957-658-11

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Audio Group

English
93B0569-1
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Published by Audio Corporate Planning Group

TC-H6800

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the cassette deck section in FH-E9X, MHC-6800.

Model Name Using Similar Mechanism	TC-H4700	
Tape Transport Mechanism Type	DECK A	TCM-190RA12A
	DECK B	TCM-190RB12A

SPECIFICATIONS

Recording system 4-track 2-channel stereo
Frequency response (DOLBY NR OFF)
40 — 13,000 Hz (±3 dB), using TYPE I cassette (Sony HF-S)
40 — 14,000 Hz (±3 dB), using TYPE II cassette (Sony UX-S)
40 — 15,000 Hz (±3 dB), using TYPE IV cassette (Sony METAL-S)
Wow and flutter 0.1% WRMS ±0.3% (DIN)

Design and specifications subject to change without notice.

- Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
"DOLBY", the double-D symbol ⧈ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

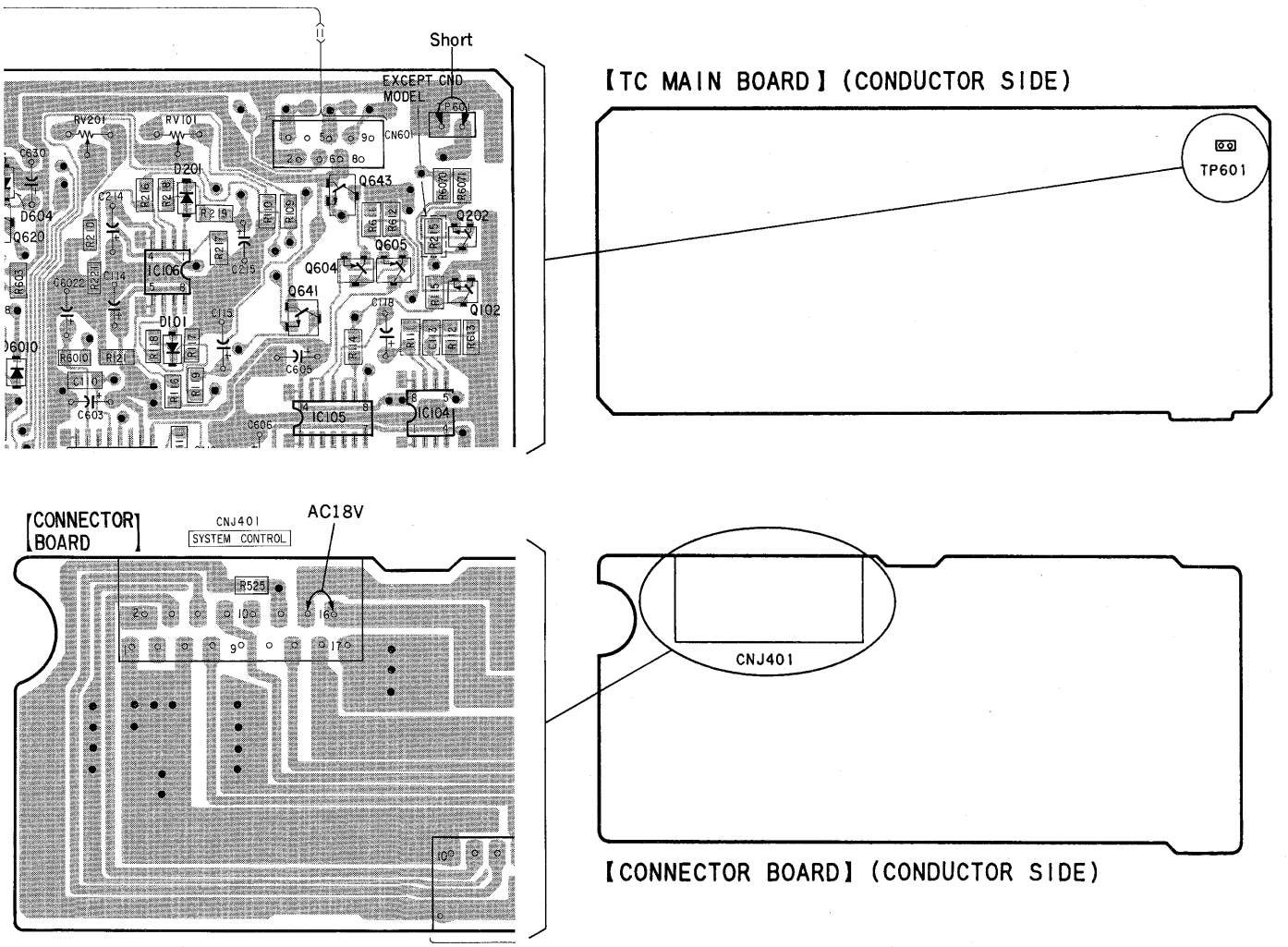
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

STEREO CASSETTE DECK

SONY®

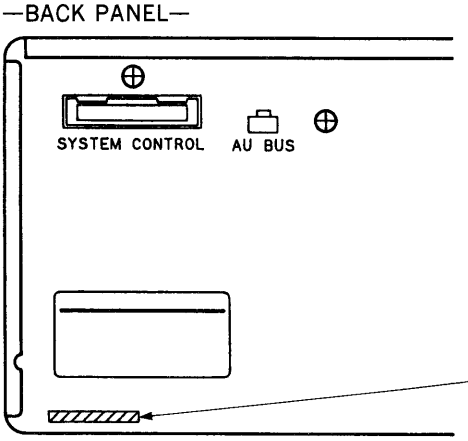
NOTE FOR REPAIRING

Usually, the power amplifier TA-H6800N is connected to this set to supply the power to it.
When repairing this set alone, as shown below, short TP601 on the TC main board, then connect 18Vac to pins ⑭ and ⑯ of CNJ401 on the connector board.



MODEL IDENTIFICATION

—BACK PANEL—



- Abbreviations
  - IT : Italian model
  - EA : Saudi Arabia model
  - AUS: Australian model
  - JE : Tourist model
  - MY : Malaysia model
  - SP : Singapore model

3-382-505-21 AE : AEP, UK, IT, E, EA, AUS, JE, MY, SP model
3-382-505-31 AE4: German model
3-382-505-81 CA : Canadian model

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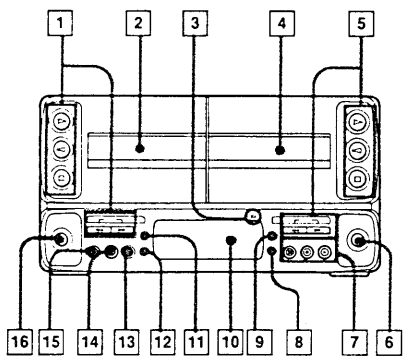
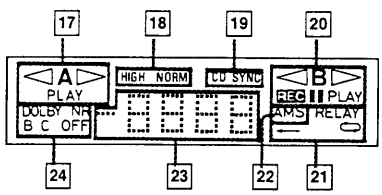
SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION



1 Tape operation buttons (for Deck A)
▷: Forward play
◁: Reverse play
□: Stop
◀◀ AMS ▶▶: Fast winding
2 Cassette holder (Deck A)
3 AUTO REC LEVEL (Automatic Recording Level) indicator (72, 84, 86)
4 Cassette holder (Deck B)
5 Tape operation buttons (for Deck B)
▷: Forward play
◁: Reverse play
□: Stop
◀◀ AMS ▶▶: Fast winding
6 ⏏ Eject button (Deck B)
7 Recording operation buttons (for Deck B)
PAUSE ⏸ button (72, 76)
MUTE ○ (muting) button (74)
REC ○ (recording) button (72)
8 RESET button (64)
Resets the counter of the cassette deck to "0".
9 COUNTER A/B selector button (64)
10 Display window
11 DIRECTION MODE button (64, 70, 72, 76)
12 DOLBY NR (Dolby Noise Reduction) selection button (66, 72)
13 DUBBING MODE button (76)
14 CD SYNCHRO FADE (Fade Synchro) button and indicator (84)
15 CD SYNCHRO C. FADE (Cross Fade Synchro) button and indicator (86)
16 ⏏ Eject button (Deck A)

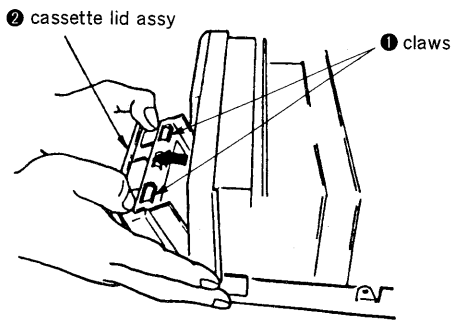


17 Deck A status display
18 Dubbing mode display
19 CD SYNCHRO display
20 Deck B status display
21 Tape direction mode display
22 AMS display
23 Counter display
24 DOLBY NR display

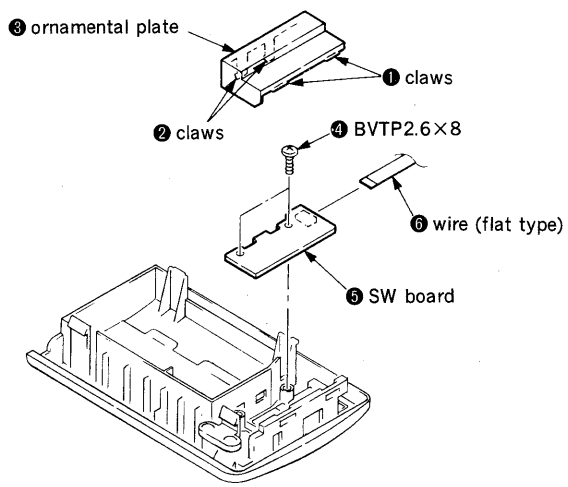
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

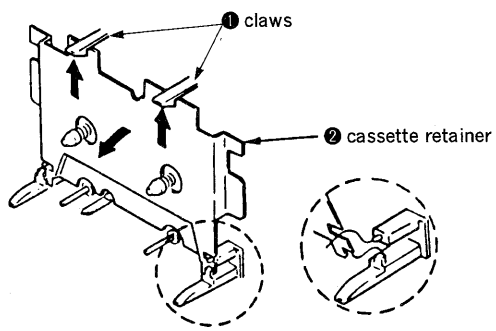
2-1. CASSETTE LID ASSY



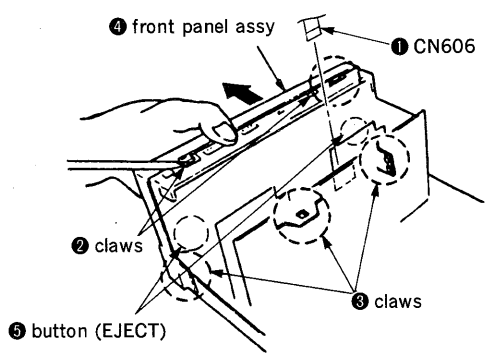
2-2. SW BOARD



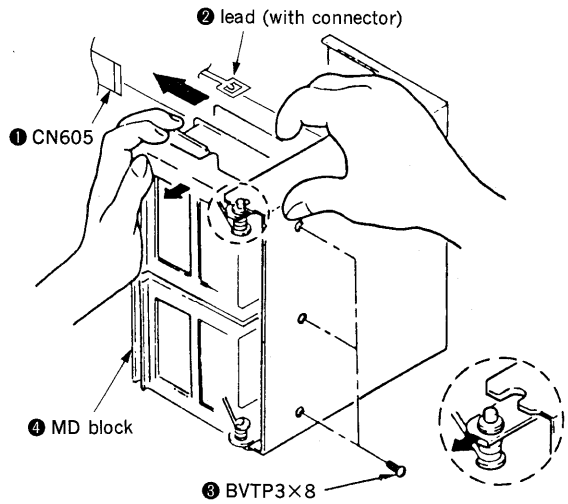
2-3. CASSETTE RETAINER



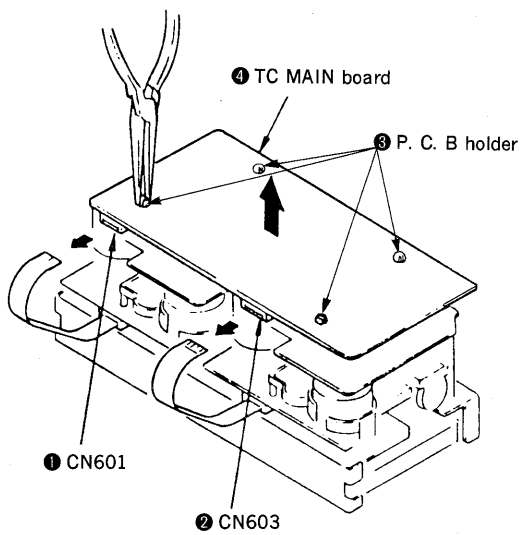
2-4. FRONT PANEL ASSY



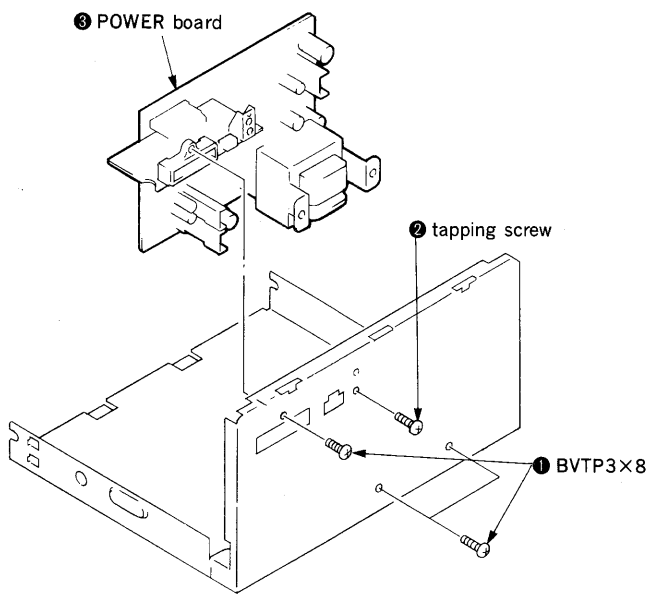
2-5. MD BLOCK



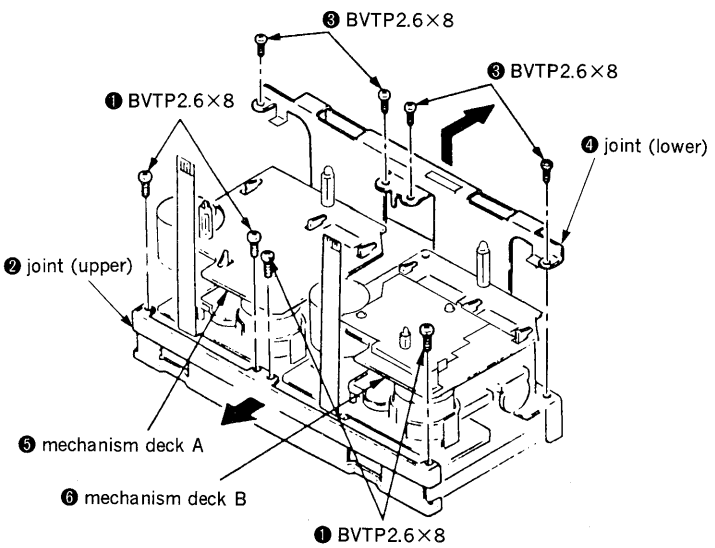
2-6. TC MAIN BOARD



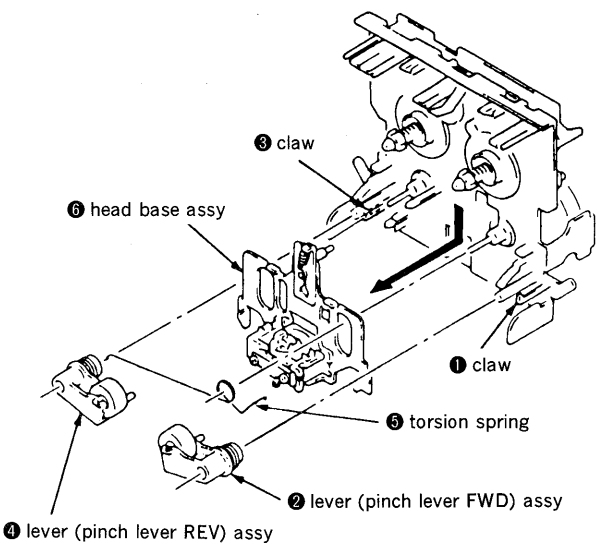
2-7. POWER BOARD



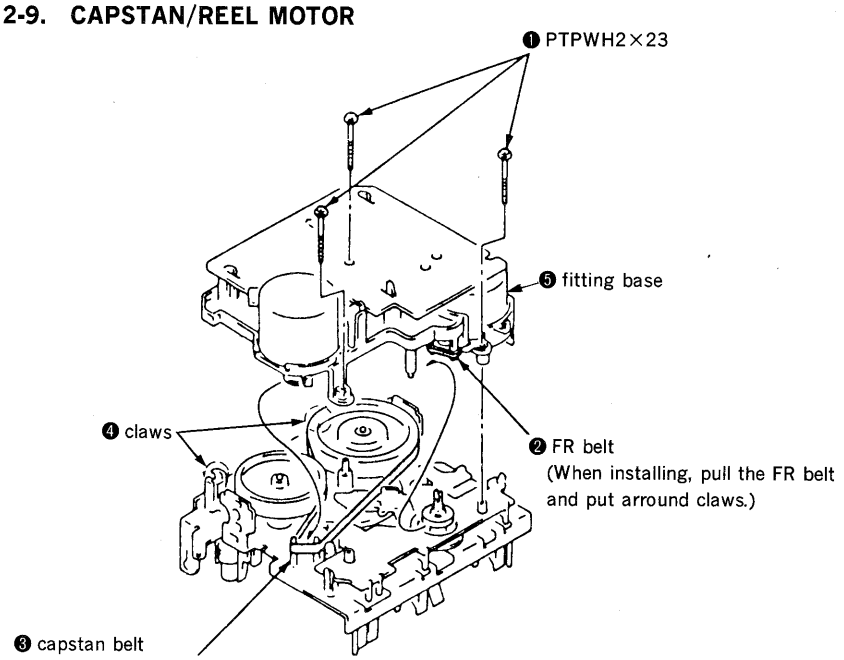
2-8. MECHANISM DECK

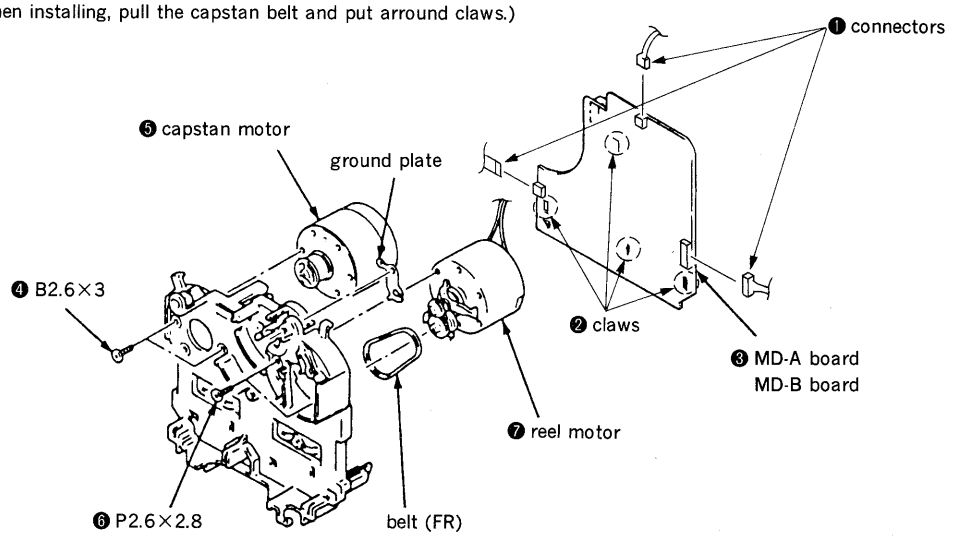


2-10. HEAD BASE ASSY



2-9. CAPSTAN/REEL MOTOR


❶ PTPWH2×23
❺ fitting base
❹ claws
❷ FR belt
(When installing, pull the FR belt and put arround claws.)
❸ capstan belt
(When installing, pull the capstan belt and put arround claws.)



SECTION 3
MECHANICAL ADJUSTMENTS

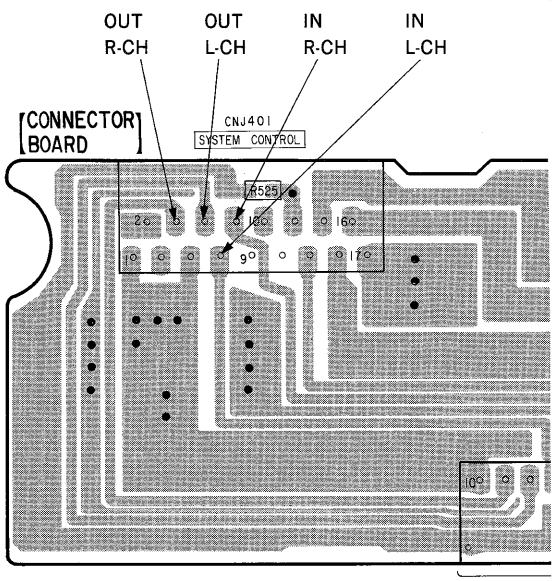
PRECAUTION

1. Clean the following parts with a denatured alcoholmoistened swad :
   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan　　idlers
2. Demagnetize the record/playback head with a head demagnetizer.
   (Head demagnetizer do not approach for the erase head.)
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be perfomed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g • cm (0.42 to 0.90 oz • inch)
Forward back tension	CQ-102C	1 to 6g • cm (0.01 to 0.08oz • inch)
Reverse	CQ-102RC	30 to 65g • cm (0.42 to 0.90oz • inch)
Reverse back tension	CQ-102RC	1 to 6g • cm (0.01 to 0.08oz • inch)
Fast Forward, Rewind	CQ-201B	70 to 120g • cm (0.98 to 1.67 oz • inch)

LINE IN/OUT Terminal (CNJ401)



SECTION 4
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
   • Switch position
   DOLBY NR switch : OFF

Test Tape

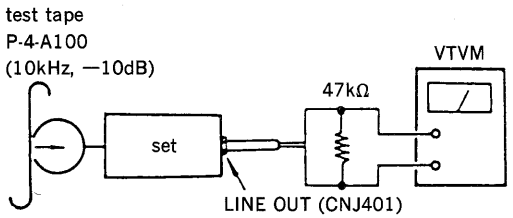
Tape	Contents	Use
P-4-A100	10kHz, −10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

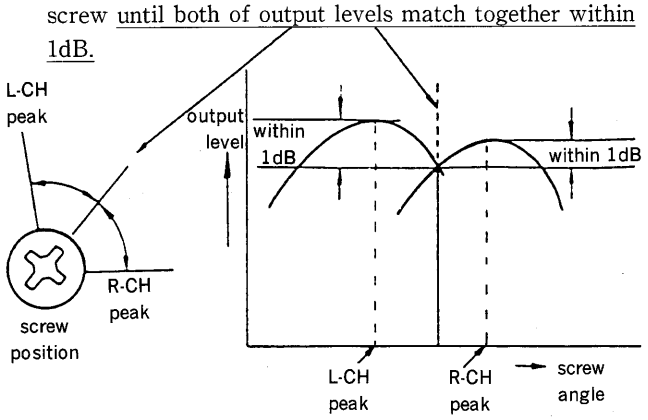
DECK A **DECK B**

Procedure :

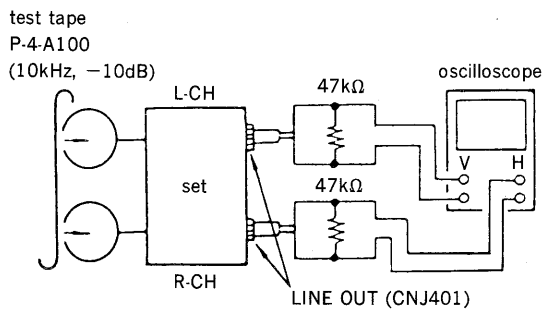
1. Forward Playback Mode

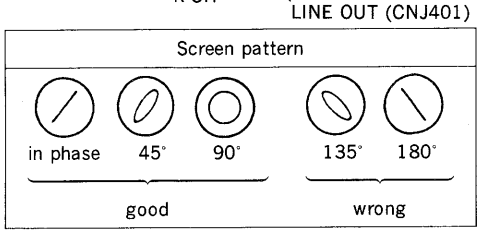


2. Turn the adjustment screw for the maximum output levels. If these levels do notmatch, turn the adjustment screw until both of output levels match together within 1dB.



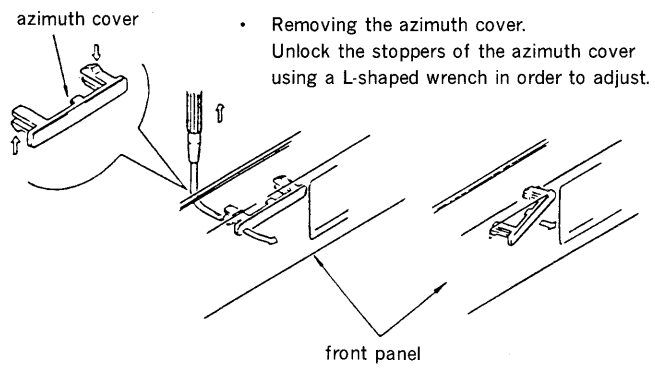
3. Playback Mode

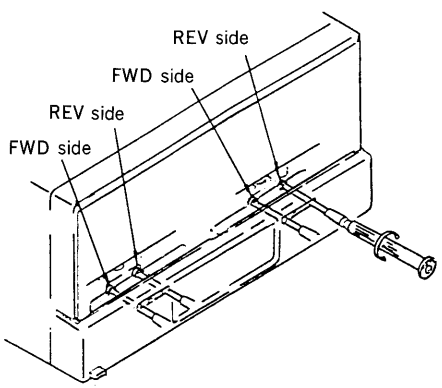




4. Change the reverse playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location : —record/playback head—

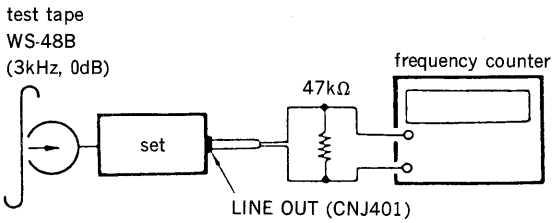

azimuth cover
• Removing the azimuth cover.
Unlock the stoppers of the azimuth cover
using a L-shaped wrench in order to adjust.
front panel



Tape Speed Adjustment DECK A DECK B

Procedure :

—Forward Playback Mode—



Perform high speed adjustment before normal speed adjustment.

(High speed adjustment)

1. Short TP601 (TC main board) when the power is OFF.
2. Turn on the power and put the deck A into the FWD mode.
3. Push the DUBBING MODE switch and set display to HIGH. (The set enters into high speed playback mode.)
4. Adjust RV72A (H) of the deck A so that a reading of the frequency counter meets the adjustment value.
5. Adjust the RV72B (H) of deck B performing steps 2 to 5 as deck A.

(Normal speed adjustment)

1. Put the set into the FWD playback mode.
2. At this time, adjust RV71A (L) of the deck A and RV71B (L) of the deck B so that a reading of the frequency counter meets the adjustment value.

Adjustment Limits :

Speed	Frequency Counter Reading
High	6,000 ± 30Hz
Normal	3,000 ± 15Hz

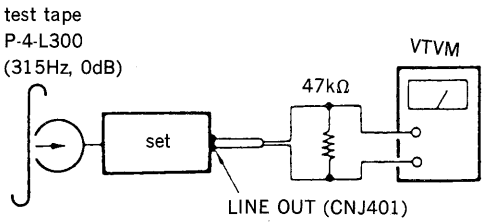
Frequency difference between the beginning and the end of the tape should be within 3%.
Frequency difference between deck A and deck B the beginning of the tape should be within 1%.

Adjustment Location : MD-A board
MD-B HX PRO board

Playback Level Adjustment DECK A DECK B

Procedure :

—Forward Playback Mode—



Adjust deck A : RV11A (L-CH), RV21A (R-CH) and deck B : RV11B (L-CH), RV21B (R-CH) so that the VTVM reading becomes the adjustment limits below.

Adjustment Limits :

LINE OUT level : −7.5 ± 0.5dB (0.31 to 0.35V)

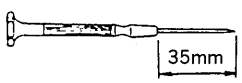
Level Difference between Channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

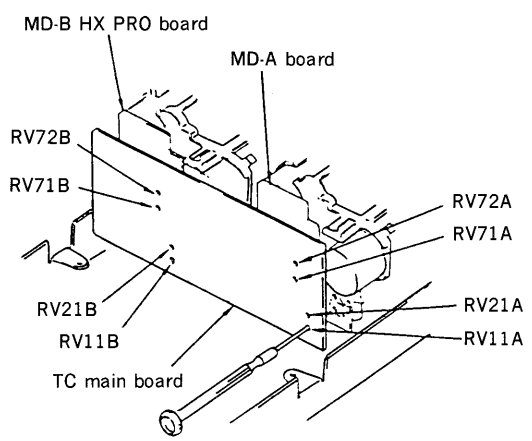
Adjustment Location : MD-A Board
MD-B HX PRO Board

Tape Speed/playback Level Adjustment

Screwdriver to adjust the MD block



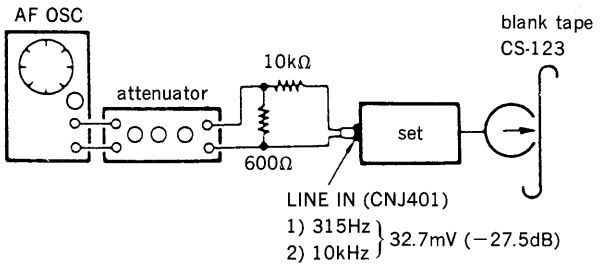
The MD block adjustment can be performed by inserting a screwdriver of which axis length (not including the shaft) is 35 mm or more through the rear side of the main board.



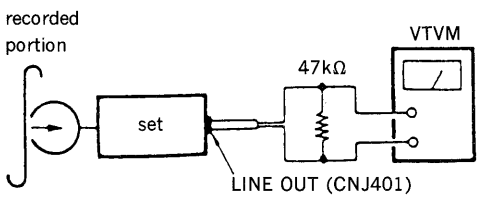
Record Bias Adjustment DECK B

Procedure :

1. Record Mode



2. Playback Mode



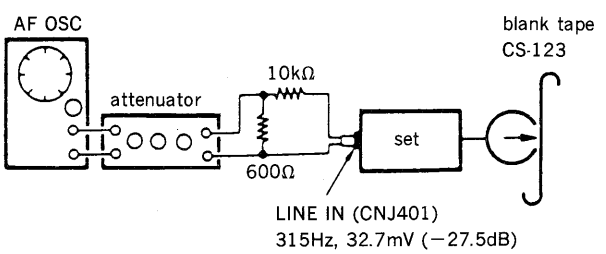
Playback the signal recorded in step 1.
Confirm that the 10kHz playback output is 0 ± 0.5dB (0.732 to 0.821V) relative to the 315Hz output. if necessary. adjust RV81 (L-CH), RV91 (R-CH) and repeat the steps given above.

Adjustment Location : MD-B HX PRO board

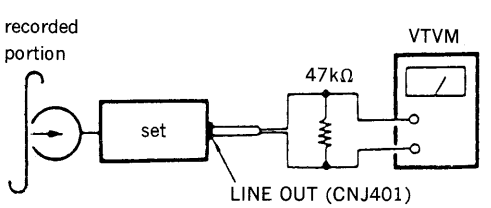
Record Level Adjustment DECK B

Procedure :

1. Record Mode

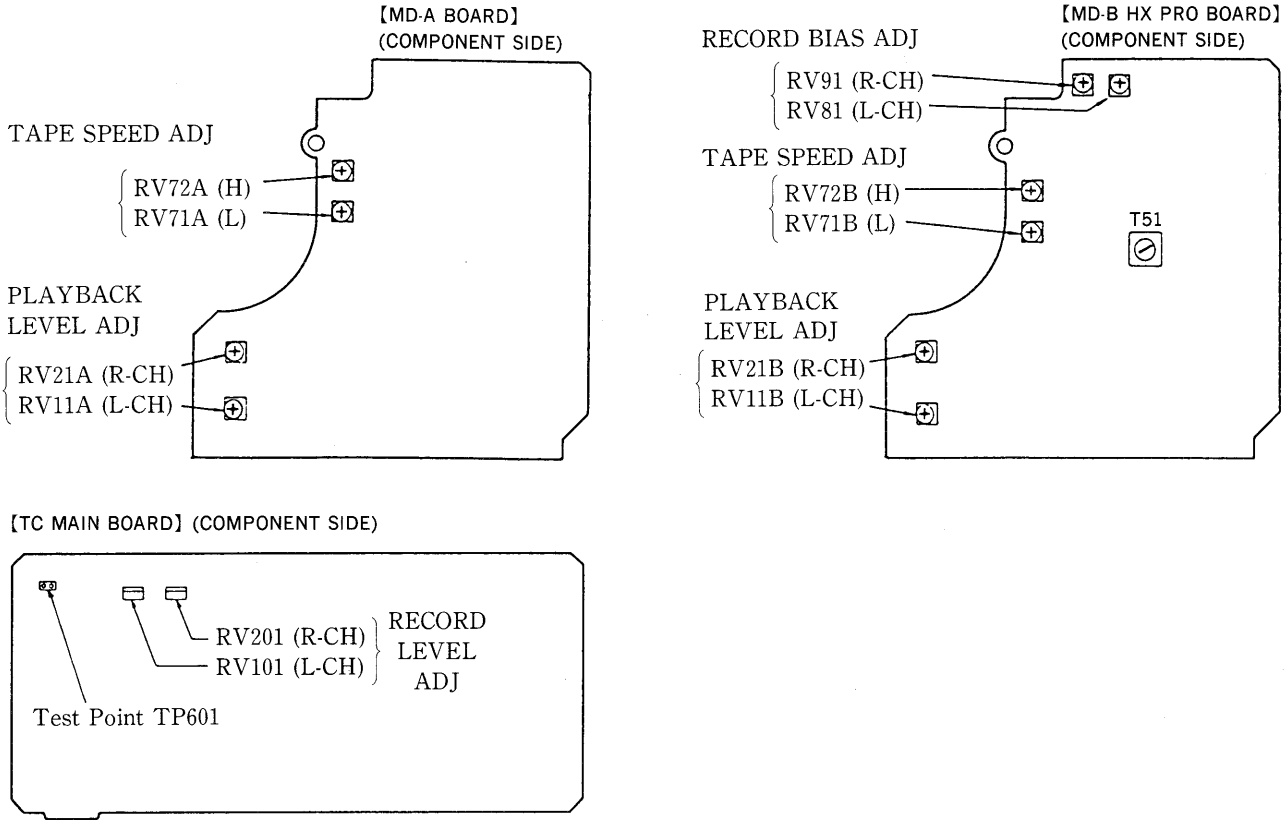


2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.
If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat steps 1 and 2.

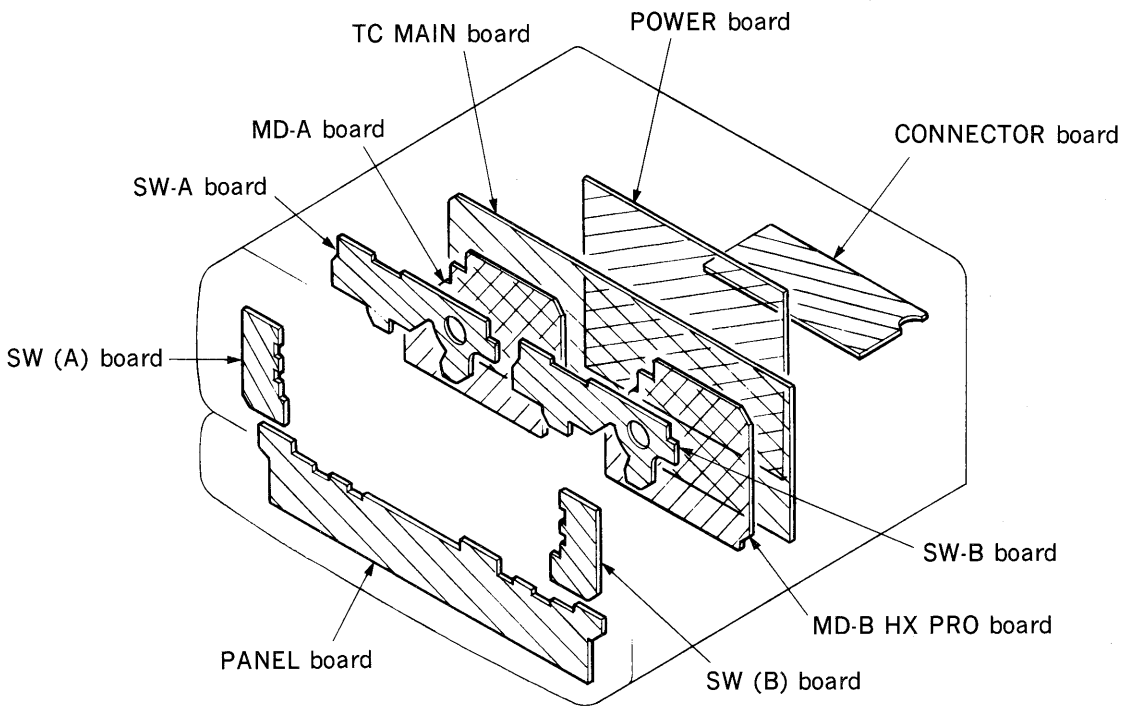
Adjustment Location :



【TC MAIN BOARD】 (COMPONENT SIDE)

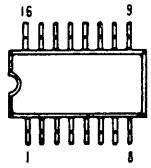
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



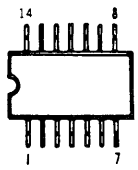
5-2. SEMICONDUCTOR LEAD LAYOUTS

CD4052BCM
CXA1578M



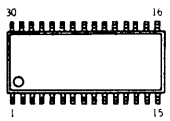
(TOP VIEW)

CD4066BCM



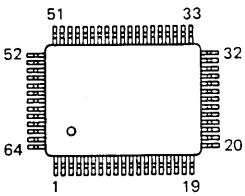
(TOP VIEW)

CXA1331M



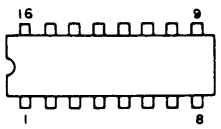
TOP VIEW

HD-614023-FA93



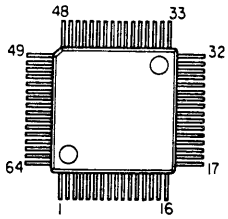
(TOP VIEW)

HD14053BFP

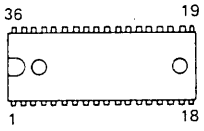


(TOP VIEW)

M38022M4-072FP

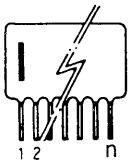


M50925-482FP



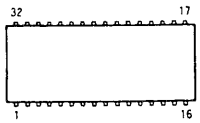
(TOP VIEW)

M5207L05

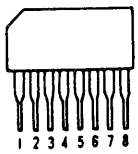


MARKING SIDE VIEW

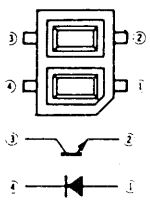
M5218AFP



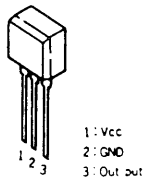
M5230L-A



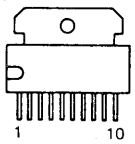
NJL5165K-B



PST572E

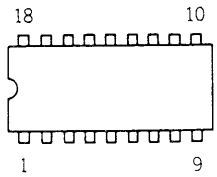


TA7272P



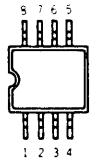
MARKING SIDE VIEW

μPC1297CA



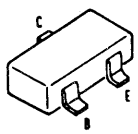
(Top view)

μPC4570G2

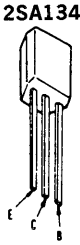


(TOP VIEW)

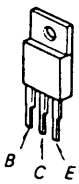
DTA144EK
RN1402
2SA1162-G
2SA1602
2SC3395
2SC3624A-L15
2SC3900
2SC4154



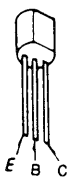
2SA1344



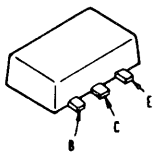
2SB1094-LK
2SD2012



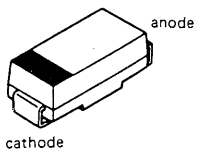
2SB1116



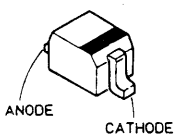
2SB1122-S
2SD1622-S



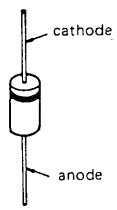
EC10DS2



MA8056
MA8062
MA8091
02DZ2.0-TPH3
02DZ20-TPHR3
1SS352



10E2



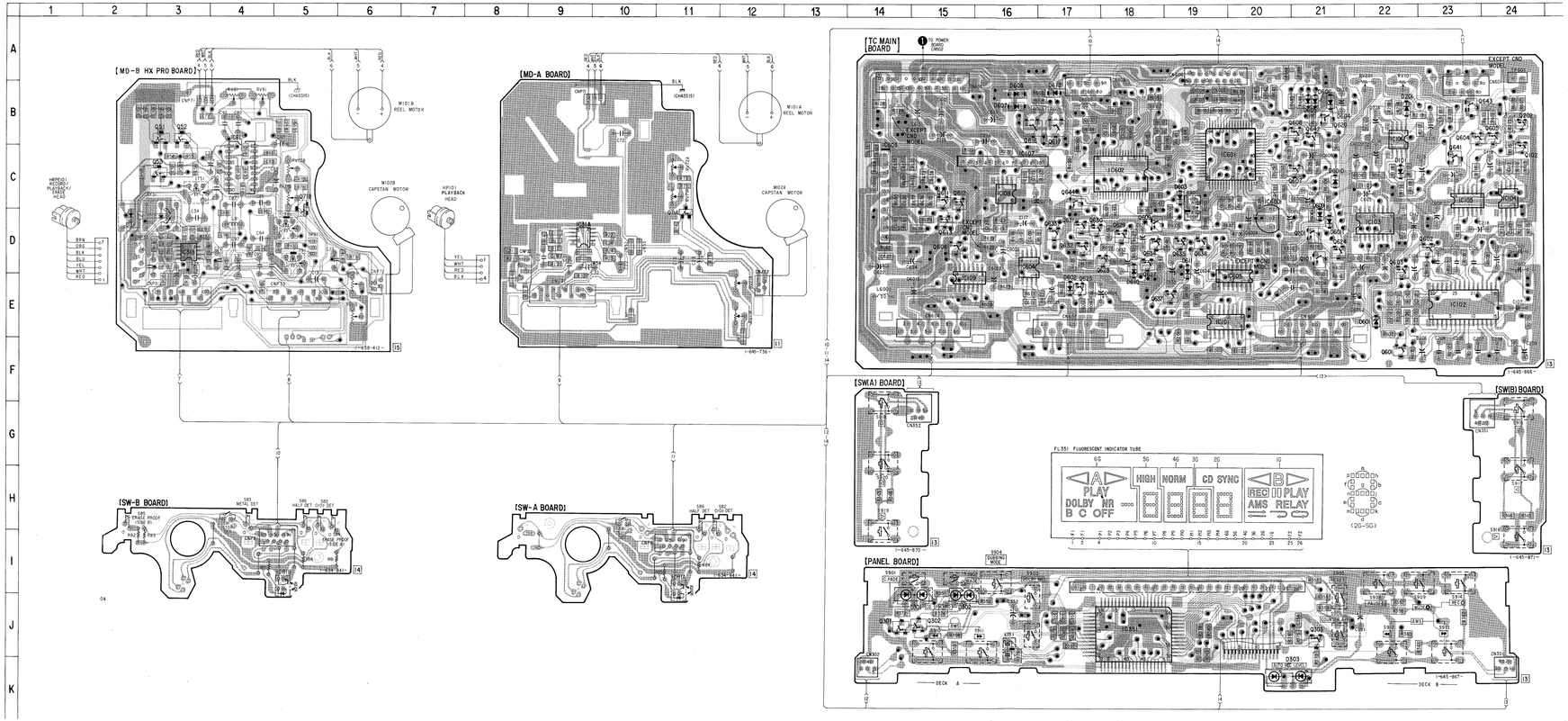
SML1260S

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D31	D-2	Q52	B-3
D101	C-22	Q53	C-3
D201	B-22	Q71A	D-11
D301	J-15	Q71B	C-5
D302	J-15	Q101	D-21
D303	K-20	Q102	C-24
D601	E-22	Q201	D-21
D602	E-17	Q202	B-24
D603	C-19	Q301	J-14
D604	B-21	Q302	J-15
D605	B-21	Q303	J-21
D606	B-21	Q601	F-22
D607	B-16	Q602	D-23
D608	B-16	Q603	D-22
D609	D-21	Q604	B-23
D610	D-18	Q605	B-24
D611	D-19	Q606	D-15
D612	B-17	Q607	C-21
D6010	C-21	Q608	B-21
D6011	D-21	Q609	D-18
		Q611	C-15
IC31A	D-9	Q612	C-15
IC31B	D-3	Q613	D-15
IC81	C-4	Q616	B-16
IC81A	I-11	Q617	B-17
IC81B	I-5	Q620	B-21
IC101	E-19	Q624	D-21
IC102	E-23	Q625	E-17
IC103	D-22	Q627	D-18
IC104	C-24	Q628	D-17
IC105	C-23	Q629	D-18
IC106	B-22	Q630	D-17
IC107	C-16	Q631	D-17
IC108	C-16	Q632	D-17
IC109	E-15	Q633	D-17
IC351	J-18	Q634	D-18
IC601	C-19	Q635	D-19
IC602	C-18	Q636	D-19
IC603	C-14	Q637	E-19
IC604	D-16	Q641	C-23
IC605	E-20	Q642	B-21
IC6001	D-20	Q643	B-23
		Q644	C-17
Q51	B-3		

Note:
- ○—— : parts extracted from the component side.
- ⊡ indicates side identified with part number.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern on the rear side.
- ●CND: Canadian model

5-3. PRINTED WIRING BOARDS—MAIN SECTION— ●Refer to page 10 for Semiconductor Lead Layouts.



5-4. SCHEMATIC DIAGRAM—MAIN SECTION— • Refer to page 20 for IC Block Diagrams.

Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▬ : B+ Line
- ▬ : B– Line
- ▭ : adjustment for repair.
- Power voltage is AC18V and fed with regulated dc power supply from pins⑭ and ⑯ on CNJ401 (Control board).
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : PB
  ( ) : REC
  ✕ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : PB (DECK A)
  ▷ : PB (DECK B)
  ⇨ : REC (DECK B)
- CND: Canadian model

IC605

	⑨	⑩
TYPE I	L	L
II	H	L
III	H	H

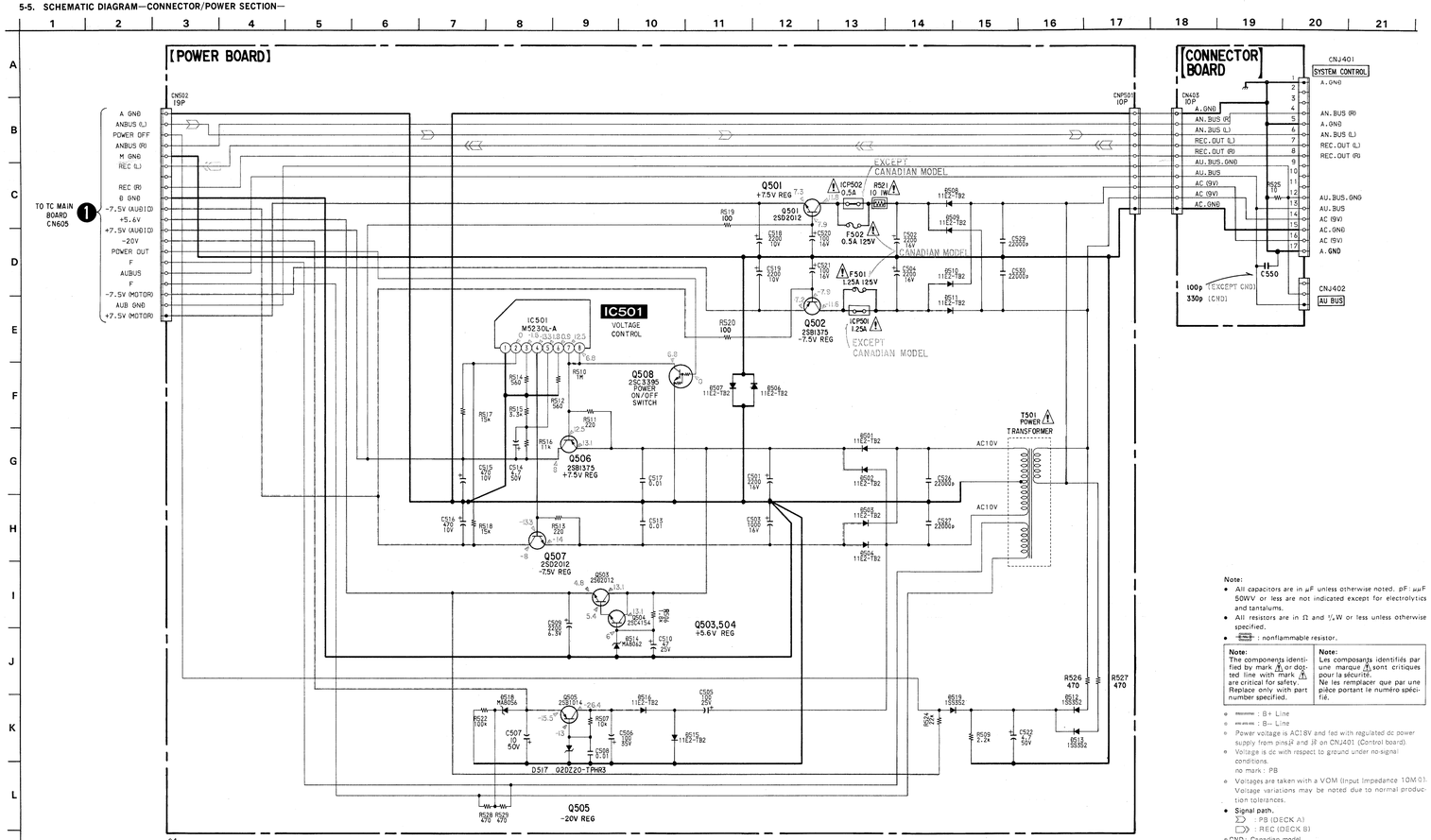
MECHANISM MICOM

	FF	TRIG	STOP	FWD
FF (bar)	L	H	L	L
TRIG	H	L	L	H
FWD (bar)	H	H	L	L

POWER OP.AMP OUT

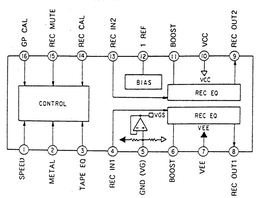
TRIG	+6.0V
FF/REW	-5.3V
FWD	-3.5V

5-5. SCHEMATIC DIAGRAM—CONNECTOR/POWER SECTION—

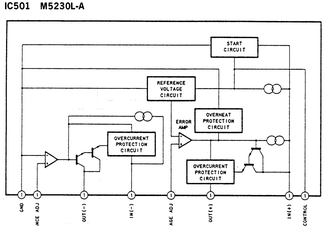


• IC Block Diagrams

IC103 CXA1578M



IC501 M5230L-A



Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▭ : nonflammable resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ⏚ : B+ Line
- ⏚ : B− Line
- Power voltage is AC18V and fed with regulated dc power supply from pins[12] and [13] on CNJ401 (Control board).
- Voltage is dc with respect to ground under no-signal conditions. no mark : PB
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. ▷ : PB (DECK A) ▷ : REC (DECK B)

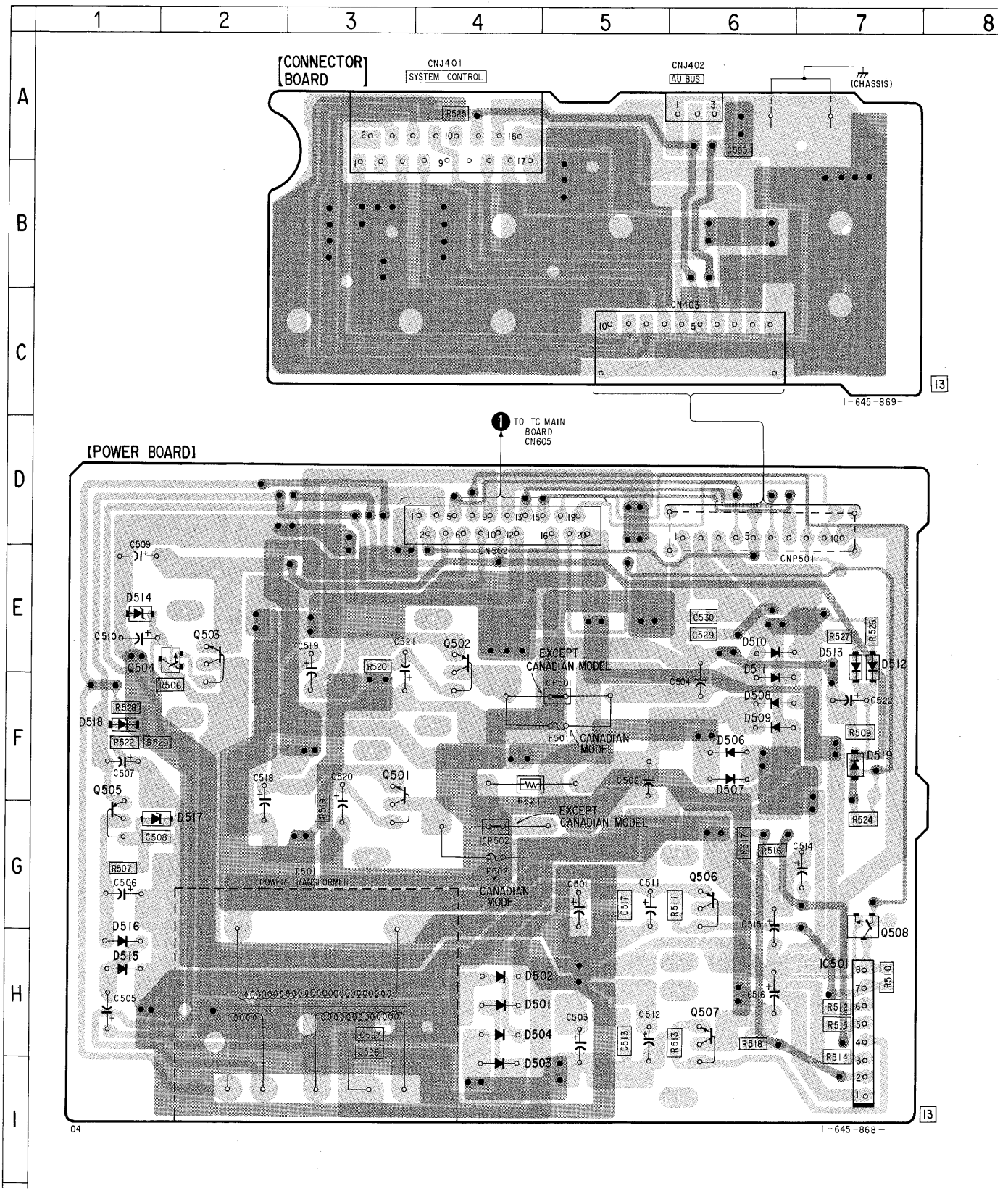
* CND : Canadian model

• Semiconductor Location

Ref. No.	Location
D501	H-4
D502	H-4
D503	I-4
D504	H-4
D506	F-6
D507	F-6
D508	F-6
D509	F-6
D510	E-6
D511	E-6
D512	E-7
D513	E-7
D514	E-1
D515	H-1
D516	H-1
D517	G-1
D518	F-1
D519	F-7
IC501	H-7
Q501	G-3
Q502	E-4
Q503	E-2
Q504	E-2
Q505	G-1
Q506	G-6
Q507	H-6
Q508	G-7

5-6. PRINTED WIRING BOARDS—CONNECTOR/POWER SECTION—

• Refer to page 10 for Semiconductor Lead Layouts.



Note:

- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ○ ▒▒ : Pattern of the rear side.
- CND: Canadian model

SECTION 6
EXPLODED VIEWS

NOTE:

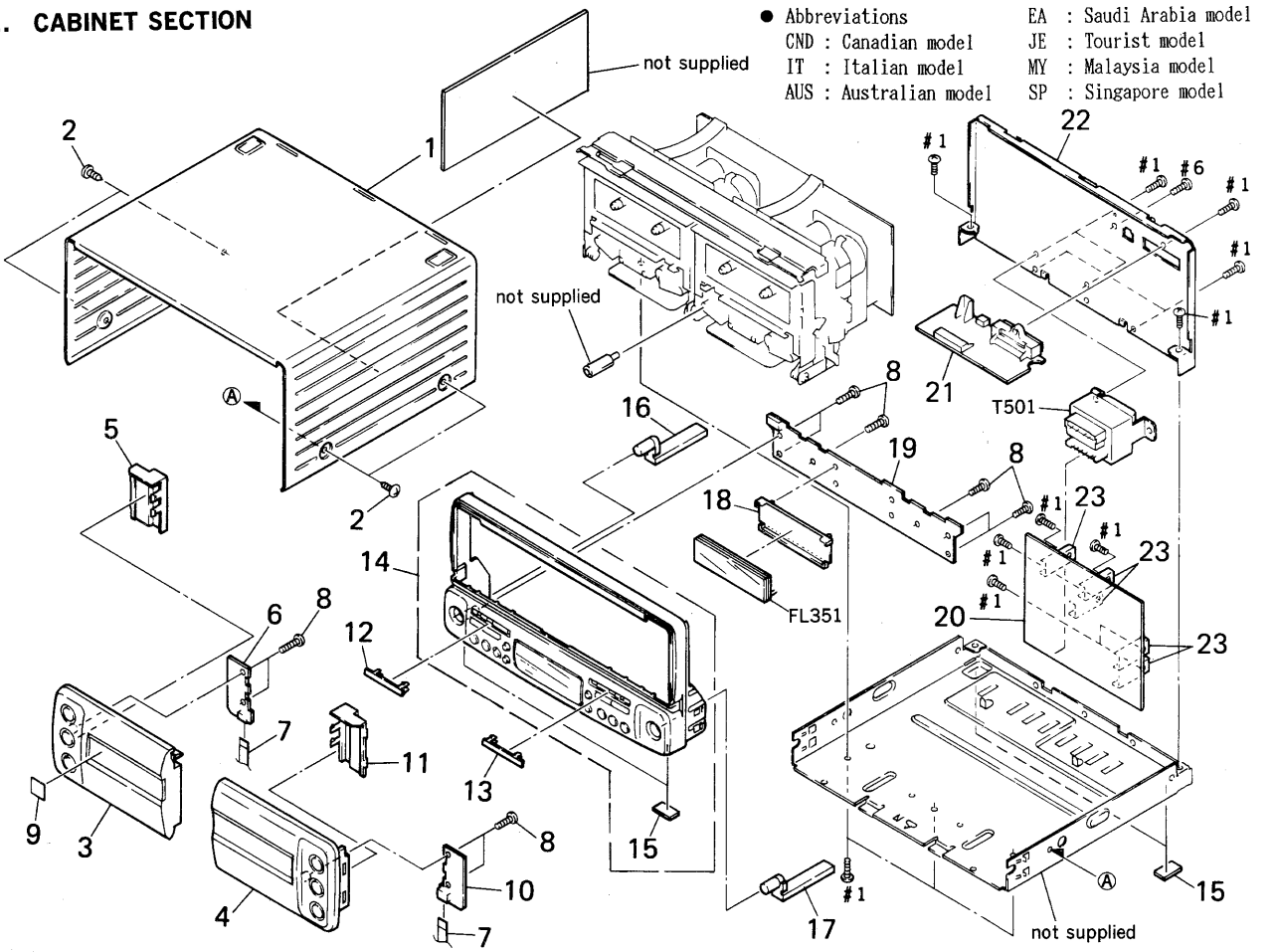
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CABINET SECTION

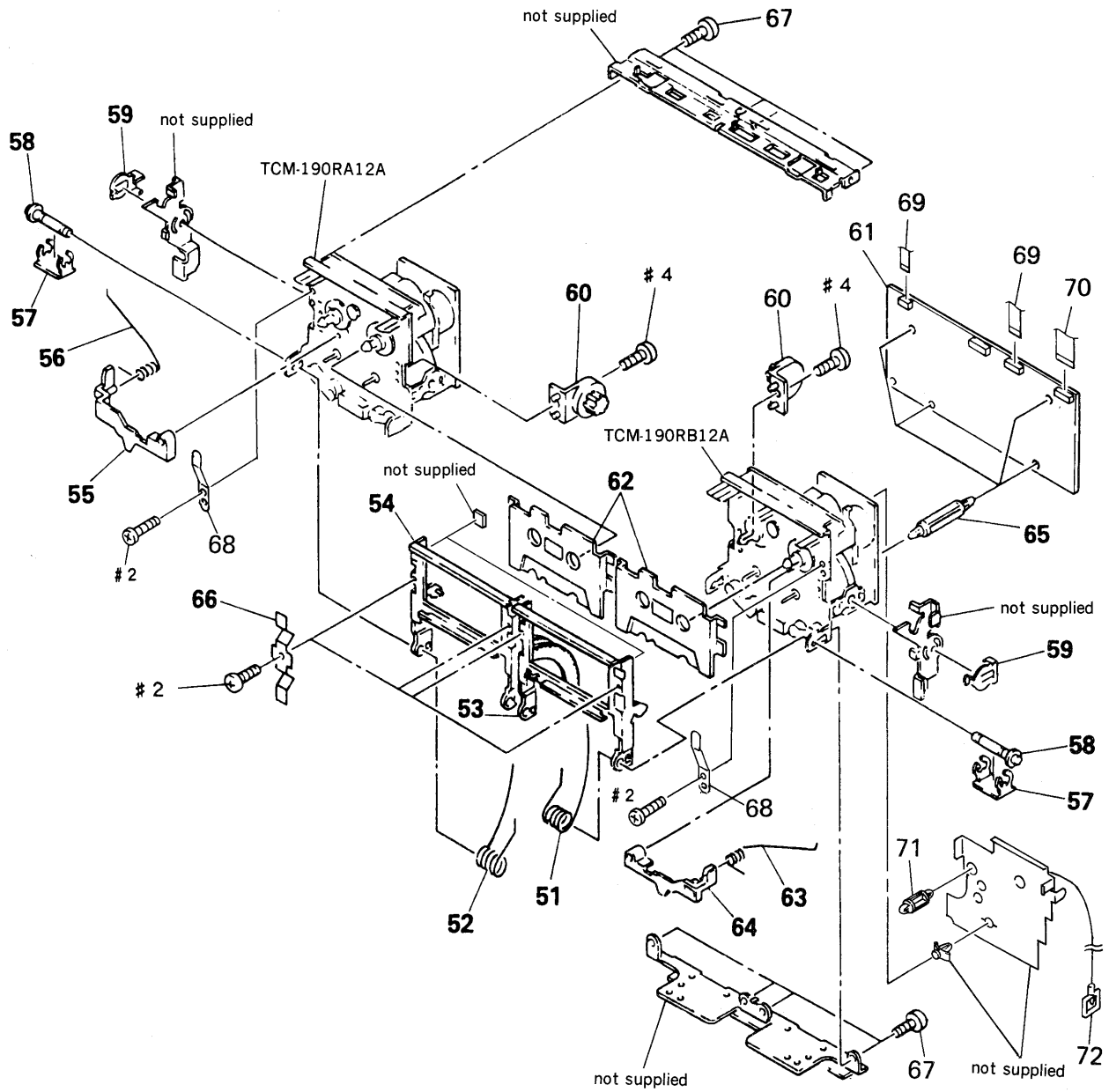
- Abbreviations
  CND : Canadian model
  IT : Italian model
  AUS : Australian model
  EA : Saudi Arabia model
  JE : Tourist model
  MY : Malaysia model
  SP : Singapore model



Ref. No.	Part No.	Description	Remark
* 1	3-382-491-01	CASE	
2	3-363-099-21	SCREW (CASE 3 TP2)	
3	X-3365-561-1	LID (A) ASSY, CASSETTE	
4	X-3366-237-1	LID (B) ASSY, CASSETTE	
* 5	3-382-486-01	PLATE (A), ORNAMENTAL	
* 6	1-645-870-11	SW (A) BOARD	
7	1-696-747-11	WIRE (FLAT TYPE) (5 CORE)	
8	4-951-620-01	SCREW (2.6X8), +BVTP	
* 9	3-703-713-41	STICKER, SONY SYMBOL (10)	
* 10	1-645-871-11	SW (B) BOARD	
* 11	3-382-497-01	PLATE (B), ORNAMENTAL	
12	3-382-489-01	COVER (AZIMUTH A)	
13	3-382-490-01	COVER (AZIMUTH B)	
14	X-3366-514-1	PANEL ASSY, FRONT	
15	4-930-336-21	FOOT (FELT)	
16	X-3365-565-1	BUTTON (EJECT-A) ASSY	
17	X-3365-566-1	BUTTON (EJECT-B) ASSY	
* 18	3-367-839-01	HOLDER, FL TUBE	

Ref. No.	Part No.	Description	Remark
* 19	A-2006-967-A	PANEL BOARD, COMPLETE (AEP, UK, IT)	
* 19	A-2006-991-A	PANEL BOARD, COMPLETE (E, AUS, EA, JE, MY, SP)	
* 19	A-2007-033-A	PANEL BOARD, COMPLETE (German)	
* 19	A-2007-051-A	PANEL BOARD, COMPLETE (CND)	
* 20	A-2006-968-A	POWER BOARD, COMPLETE (AEP, UK, IT)	
* 20	A-2006-992-A	POWER BOARD, COMPLETE (E, AUS, EA, JE, MY, SP)	
* 20	A-2007-034-A	POWER BOARD, COMPLETE (German)	
* 20	A-2007-052-A	POWER BOARD, COMPLETE (CND)	
* 21	1-645-869-11	CONNECTOR BOARD	
* 22	3-382-505-21	PANEL, BACK (AEP, E, UK, IT, AUS, EA, JE, MY, SP)	
* 22	3-382-505-31	PANEL, BACK (German)	
* 22	3-382-505-81	PANEL, BACK (CND)	
* 23	3-309-144-31	HEAT SINK	
FL351	1-519-638-11	INDICATOR TUBE, FLUORESCENT	
⚠T501	1-423-382-11	TRANSFORMER, POWER (EXCEPT CND)	
⚠T501	1-423-699-11	TRANSFORMER, POWER (CND)	

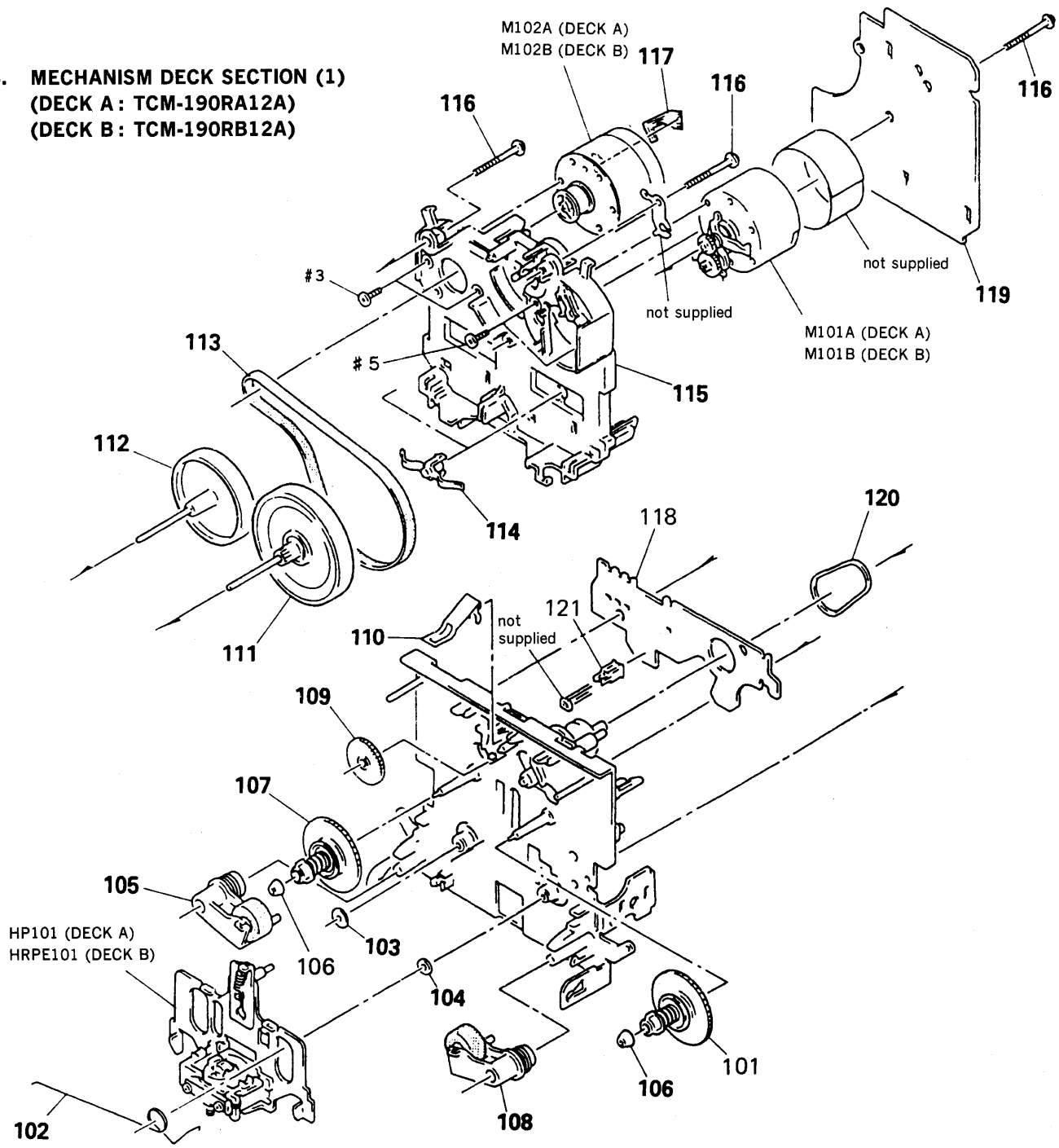
6-2. CASSETTE HOLDER SECTION



Ref. No.	Part No.	Description	Remark
51	3-354-960-01	SPRING (LOADING R), TORSION	
52	3-354-959-01	SPRING (LOADING L), TORSION	
53	X-3362-856-1	HOLDER (R) ASSY, CASSETTE	
54	X-3362-857-1	HOLDER (L) ASSY, CASSETTE	
55	3-354-955-01	LEVER (EJECT SAFETY LEVER L)	
56	3-354-961-01	SPRING (EJECT SAFETY SPRING L)	
57	3-367-720-01	RING (W), RETAINING	
58	3-367-721-01	SHAFT (FULCRUM SHAFT)	
59	3-354-957-01	JOINT (LOCK LEVER)	
60	3-354-963-01	DAMPER	
* 61	A-2006-966-A	TC MAIN BOARD, COMPLETE (AEP, UK, IT)	
* 61	A-2006-990-A	TC MAIN BOARD, COMPLETE (E, AUS, EA, JE, MY, SP)	
* 61	A-2007-032-A	TC MAIN BOARD, COMPLETE (German)	
* 61	A-2007-050-A	TC MAIN BOARD, COMPLETE (CND)	

Ref. No.	Part No.	Description	Remark
62	3-367-711-01	RETAINER, CASSETTE	
63	3-354-962-01	SPRING (EJECT SAFETY SPRING R)	
64	3-354-956-01	LEVER (EJECT SAFETY LEVER R)	
* 65	3-682-419-21	HOLDER, P.C.B	
66	3-340-137-01	SPRING, CASSETTE RETAINER	
67	4-951-620-01	SCREW (2.6X8), +BVTP	
68	3-384-275-01	DETENT, HOLDER	
69	1-590-902-11	WIRE (FLAT TYPE) (9 CORE)	
70	1-696-748-11	WIRE (FLAT TYPE) (19 CORE)	
* 71	3-682-419-11	HOLDER, P.C.B	
* 72	1-690-880-31	LEAD (WITH CONNECTOR)	

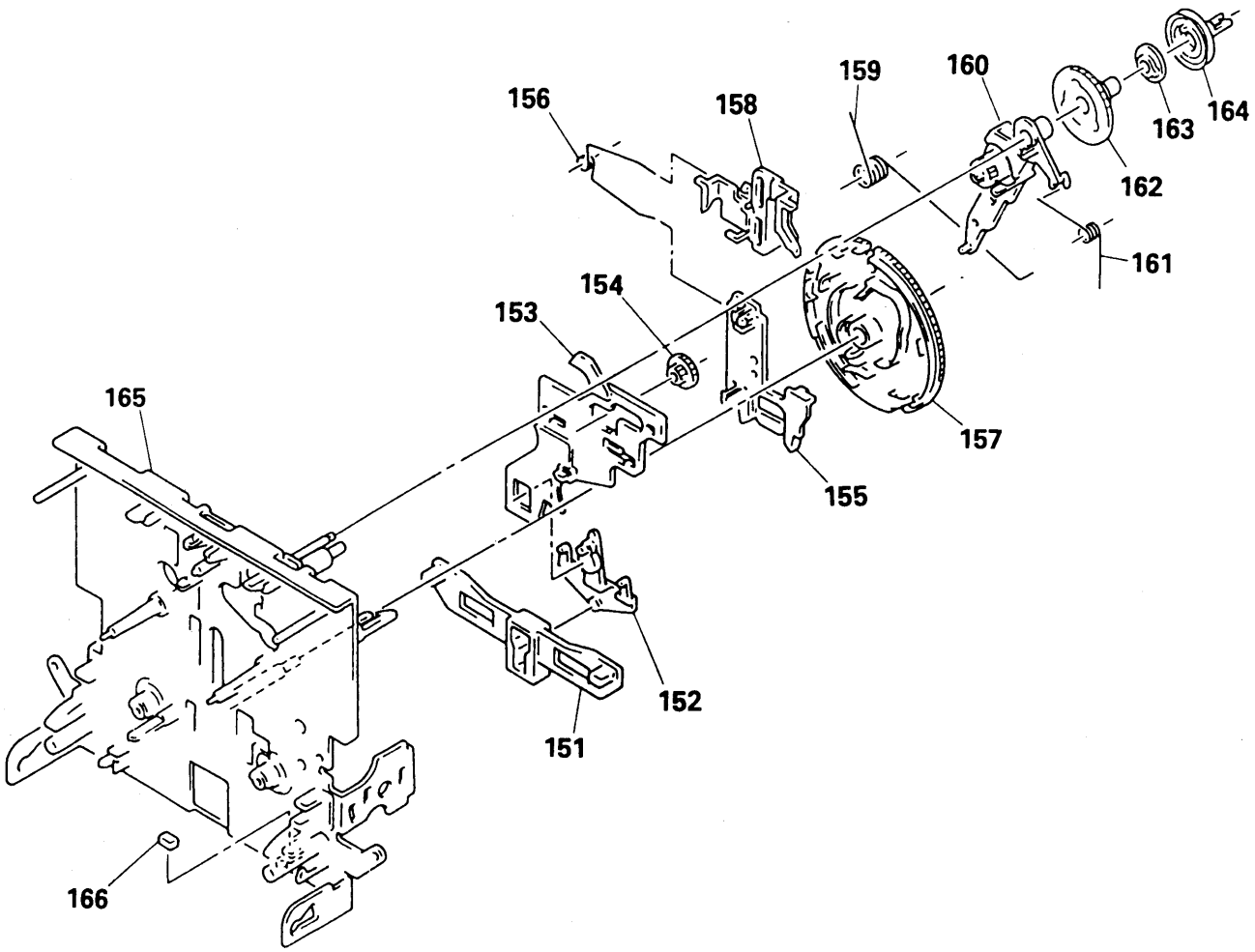
6-3. MECHANISM DECK SECTION (1)
(DECK A : TCM-190RA12A)
(DECK B : TCM-190RB12A)



Ref. No.	Part No.	Description	Remark
101	X-3359-404-1	TABLE ASSY, REEL	
102	3-359-455-01	SPRING, TORSION	
103	3-356-714-01	WASHER	
104	3-356-713-01	WASHER	
105	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
106	3-362-308-01	CAP (REEL)	
107	X-3362-078-1	TABLE ASSY (B), REEL	
108	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
109	3-359-424-01	GEAR (REVERSE GEAR)	
110	3-359-430-01	SPRING(CASSETTE RETAINER),LEAF	
111	X-3359-406-1	FLYWHEEL (FWD) ASSY	
112	X-3359-410-1	FLYWHEEL (REV) ASSY	
113	3-359-417-01	BELT (FLAT), CAPSTAN	
114	3-575-321-00	RETAINER, THRUST, CAPSTAN	
* 115	3-359-436-01	BASE (THRUST RETAINER),FITTING	

Ref. No.	Part No.	Description	Remark
116	3-359-414-01	SCREW (+PTPWH 2X23)	
117	1-638-983-11	MOTOR FLEXIBLE BOARD	
118	1-634-841-14	SW-A BOARD (DECK A)	
118	1-634-841-14	SW-B BOARD (DECK B)	
* 119	A-2006-399-A	MD-A BOARD, COMPLETE	
* 119	A-2006-401-A	MD-B HX PRO BOARD, COMPLETE	
120	3-359-466-01	BELT (FR), SQUARE	
121	3-343-419-01	HOLDER (S SENSOR A)	
HP101	A-2003-837-F	BASE ASSY, HEAD (DECK A)	
HRPE101	A-2003-838-A	BASE ASSY, HEAD (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	

6-4. MECHANISM DECK SECTION (2)
(DECK A : TCM-190RA12A)
(DECK B : TCM-190RB12A)



Ref. No.	Part No.	Description	Remark
* 151	3-359-425-01	SLIDER (REVERSE SLIDER)	
152	3-359-426-01	LEVER (REVERSE LEVER)	
* 153	3-359-415-01	SLIDER (TRIGGER SLIDER)	
154	3-359-448-01	GEAR (TRIGGER)	
* 155	3-359-427-01	SLIDER (REVERSE SLIDER)	
156	3-359-454-01	SPRING, TORSION	
157	3-359-420-01	GEAR (CAM GEAR)	
158	3-359-429-01	SLIDER (BRAKE PLATE)	

Ref. No.	Part No.	Description	Remark
159	3-359-456-01	SPRING(TRIGGER SPRING), TORSION	
160	X-3359-405-1	LEVER (FR ARM) ASSY	
161	3-359-453-01	SPRING (FR ARM), TORSION	
162	3-359-419-01	GEAR (FR GEAR)	
163	3-359-421-01	CLUTCH (REEL DISK)	
164	3-359-418-01	PULLEY (FR PULLEY)	
165	X-3363-790-1	CHASSIS ASSY, MECHANICAL	
166	3-359-469-01	SPACER	

SECTION 7
ELECTRICAL PARTS LIST

CONNECTOR MD-A

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- Abbreviations
  CND : Canadian model
  IT : Italian model
  AUS : Australian model
  EA : Saudi Arabia model
  JE : Tourist model
  MY : Malaysia model
  SP : Singapore model

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	1-645-869-11	CONNECTOR BOARD			
		**********			
		< CAPACITOR >			
C550	1-163-117-00	CERAMIC CHIP (EXCEPT CND)	100PF	5%	50V
C550	1-163-129-00	CERAMIC CHIP (CND)	330PF	5%	50V
		< CONNECTOR >			
* CN403	1-569-505-11	PIN, CONNECTOR 10P			
CNJ401	1-569-624-21	SOCKET, CONNECTOR 17P (SYSTEM CONTROL)			
* CNJ402	1-565-561-11	PIN, CONNECTOR 3P (AU BUS)			
		< RESISTOR >			
R525	1-216-001-00	METAL CHIP	10	5%	1/10W
**********					
*	A-2006-399-A	MD-A BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
		< CONNECTOR >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD 10P			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC31A	8-759-106-02	IC uPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
		< TRANSISTOR >			
Q71A	8-729-602-36	TRANSISTOR 2SA1602			
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11A	1-241-627-11	RES, ADJ, CARBON	1K		
RV21A	1-241-627-11	RES, ADJ, CARBON	1K		
RV71A	1-241-630-11	RES, ADJ, CARBON	10K		
RV72A	1-241-630-11	RES, ADJ, CARBON	10K		
**********					

Ref. No.	Part No.	Description			Remark
*	A-2006-401-A	MD-B HX PRO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C33	1-124-234-00	ELECT	22uF	20%	16V
C51	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C52	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C53	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C54	1-136-601-11	FILM	0.01uF	5%	630V
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C57	1-164-346-11	CERAMIC CHIP	1uF		16V
C71	1-164-346-11	CERAMIC CHIP	1uF		16V
C80	1-124-234-00	ELECT	22uF	20%	16V
C81	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C82	1-136-157-00	FILM	0.022uF	5%	50V
C83	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C84	1-136-478-11	FILM	470PF	5%	630V
C85	1-136-433-11	FILM	100PF	5%	630V
C86	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C87	1-136-273-91	FILM	75PF	5%	630V
C88	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C89	1-124-234-00	ELECT	22uF	20%	16V
C90	1-107-045-00	MICA	3.9PF		500V
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C92	1-136-157-00	FILM	0.022uF	5%	50V
C93	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C94	1-136-478-11	FILM	470PF	5%	630V
C95	1-136-433-11	FILM	100PF	5%	630V
C96	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C97	1-136-273-91	FILM	75PF	5%	630V
C98	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C99	1-164-005-11	CERAMIC CHIP	0.47uF		25V
		< CONNECTOR >			
* CNP31	1-580-782-11	CONNECTOR, BOARD TO BOARD 10P			
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP33	1-580-782-11	CONNECTOR, BOARD TO BOARD 10P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CNP72	1-580-411-11	SOCKET, CONNECTOR 4P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D31	8-719-016-74	DIODE 1SS352			
		< IC >			
IC31B	8-759-106-02	IC uPC4570G2			
IC81	8-759-106-56	IC uPC1297CA			
		< INDUCTOR >			
L81	1-410-780-11	INDUCTOR 27mH			
L91	1-410-780-11	INDUCTOR 27mH			
		< TRANSISTOR >			
Q51	8-729-808-01	TRANSISTOR 2SD1622-S			
Q52	8-729-808-01	TRANSISTOR 2SD1622-S			
Q53	8-729-808-01	TRANSISTOR 2SD1622-S			
Q71B	8-729-216-22	TRANSISTOR 2SA1162-G			
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R51	1-216-097-00	METAL CHIP	100K	5%	1/10W
R52	1-216-097-00	METAL CHIP	100K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R57	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
R81	1-216-073-00	METAL CHIP	10K	5%	1/10W
R82	1-216-085-00	METAL CHIP	33K	5%	1/10W
R83	1-216-001-00	METAL CHIP	10	5%	1/10W
R84	1-216-101-00	METAL CHIP	150K	5%	1/10W
R85	1-216-075-00	METAL CHIP	12K	5%	1/10W
R91	1-216-073-00	METAL CHIP	10K	5%	1/10W
R92	1-216-085-00	METAL CHIP	33K	5%	1/10W
R93	1-216-001-00	METAL CHIP	10	5%	1/10W
R94	1-216-101-00	METAL CHIP	150K	5%	1/10W
R95	1-216-075-00	METAL CHIP	12K	5%	1/10W

MD-B HX PRO PANEL

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV11B	1-241-627-11	RES, ADJ, CARBON 1K			
RV21B	1-241-627-11	RES, ADJ, CARBON 1K			
RV71B	1-241-630-11	RES, ADJ, CARBON 10K			
RV72B	1-241-630-11	RES, ADJ, CARBON 10K			
RV81	1-241-122-11	RES, ADJ, CARBON 22K			
RV91	1-241-122-11	RES, ADJ, CARBON 22K			
		< RELAY >			
RY31	1-515-913-11	RELAY			
		< TRANSFORMER >			
T51	1-406-417-11	COIL, BIAS OSCILLATION			
T81	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR			
T91	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR			
		< TEST PIN >			
* TP81	1-568-449-11	HOUSING, CONNECTOR(PC BOARD) 3P			
**********					
*	A-2006-967-A	PANEL BOARD, COMPLETE(AEP, UK, IT)			
*	A-2006-991-A	PANEL BOARD, COMPLETE(E, AUS, EA, JE, MY, SP)			
*	A-2007-033-A	PANEL BOARD, COMPLETE(German)			
*	A-2007-051-A	PANEL BOARD, COMPLETE(CND)			
		**********			
	1-696-749-11	WIRE (FLAT TYPE) (16 CORE)			
*	3-367-839-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C351	1-126-163-11	ELECT	4.7uF	20%	50V
C352	1-124-638-11	ELECT	22uF	20%	10V
C353	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C354	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C355	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C356	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C357	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
		< CONNECTOR >			
CN301	1-580-472-11	SOCKET, CONNECTOR 5P			
CN302	1-580-472-11	SOCKET, CONNECTOR 5P			
		< DIODE >			
D301	8-719-026-64	LED SML1260S (CD SYNCHRO C.FADE)			
D302	8-719-026-64	LED SML1260S (CD SYNCHRO FADE)			
D303	8-719-026-64	LED SML1260S (AUTO REC LEVEL)			

Ref. No.	Part No.	Description			Remark
		< FLUORESCENT INDICATOR >			
FL351	1-519-638-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC351	8-759-323-35	IC HD-614023-FA93			
		< TRANSISTOR >			
Q301	8-729-805-65	TRANSISTOR 2SA1344			
Q302	8-729-805-65	TRANSISTOR 2SA1344			
Q303	8-729-805-65	TRANSISTOR 2SA1344			
		< RESISTOR >			
R351	1-216-029-00	METAL CHIP	150	5%	1/10W
R352	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R353	1-216-049-00	METAL CHIP	1K	5%	1/10W
R354	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R355	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R356	1-216-037-00	METAL CHIP	330	5%	1/10W
R357	1-216-041-00	METAL CHIP	470	5%	1/10W
R358	1-216-045-00	METAL CHIP	680	5%	1/10W
R359	1-216-049-00	METAL CHIP	1K	5%	1/10W
R360	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R361	1-216-049-00	METAL CHIP	1K	5%	1/10W
R362	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R367	1-216-089-00	METAL CHIP	47K	5%	1/10W
R368	1-216-089-00	METAL CHIP	47K	5%	1/10W
R369	1-216-089-00	METAL CHIP	47K	5%	1/10W
R372	1-216-037-00	METAL CHIP	330	5%	1/10W
R373	1-216-037-00	METAL CHIP	330	5%	1/10W
R374	1-216-037-00	METAL CHIP	330	5%	1/10W
R375	1-216-081-00	METAL CHIP	22K	5%	1/10W
R376	1-216-121-00	METAL CHIP	1M	5%	1/10W
R377	1-216-085-00	METAL CHIP	33K	5%	1/10W
R378	1-216-025-00	METAL CHIP	100	5%	1/10W
R379	1-216-025-00	METAL CHIP	100	5%	1/10W
R380	1-216-025-00	METAL CHIP	100	5%	1/10W
R381	1-216-025-00	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S901	1-572-184-11	SWITCH, KEYBOARD (CD SYNCHRO C.FADE)			
S902	1-572-184-11	SWITCH, KEYBOARD (CD SYNCHRO FADE)			
S903	1-572-184-11	SWITCH, KEYBOARD (DOLBY NR)			
S904	1-554-303-21	SWITCH, TACTILE (DUBBING MODE)			
S905	1-572-184-11	SWITCH, KEYBOARD (RESET)			
S906	1-572-184-11	SWITCH, KEYBOARD (COUNTER A/B)			
S907	1-572-184-11	SWITCH, KEYBOARD (DIRECTION MODE)			
S908	1-554-303-21	SWITCH, TACTILE (PASE ❚❚)			
S909	1-554-303-21	SWITCH, TACTILE (MUTE ●)			

Ref. No.	Part No.	Description			Remark
S910	1-554-303-21	SWITCH, TACTILE (AMS ◀◀) (DECK A)			
S911	1-554-303-21	SWITCH, TACTILE (AMS ▶▶) (DECK A)			
S912	1-554-303-21	SWITCH, TACTILE (AMS ◀◀) (DECK B)			
S913	1-554-303-21	SWITCH, TACTILE (AMS ▶▶) (DECK B)			
S914	1-554-303-21	SWITCH, TACTILE (REC ○)			
		< VIBRATOR >			
X351	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			
**********					
*	A-2006-968-A	POWER BOARD, COMPLETE (AEP, UK, IT)			
*	A-2006-992-A	POWER BOARD, COMPLETE (E, AUS, EA, JE, MY, SP)			
*	A-2007-034-A	POWER BOARD, COMPLETE (German)			
*	A-2007-052-A	POWER BOARD, COMPLETE (CND)			
		**********			
*	3-309-144-31	HEAT SINK			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C501	1-126-768-11	ELECT	2200uF	20%	16V
C502	1-126-768-11	ELECT	2200uF	20%	16V
C503	1-124-360-00	ELECT	1000uF	20%	16V
C504	1-126-768-11	ELECT	2200uF	20%	16V
C505	1-124-478-11	ELECT	100uF	20%	25V
C506	1-124-122-11	ELECT	100uF	20%	50V
C507	1-124-907-11	ELECT	10uF	20%	50V
C508	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C509	1-124-893-11	ELECT	2200uF	20%	10V
C510	1-124-477-11	ELECT	47uF	20%	25V
C513	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C514	1-124-927-11	ELECT	4.7uF	20%	100V
C515	1-124-472-11	ELECT	470uF	20%	10V
C516	1-124-472-11	ELECT	470uF	20%	10V
C517	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C518	1-126-927-11	ELECT	2200uF	20%	10V
C519	1-126-927-11	ELECT	2200uF	20%	10V
C520	1-126-101-11	ELECT	100uF	20%	16V
C521	1-126-101-11	ELECT	100uF	20%	16V
C522	1-124-927-11	ELECT	4.7uF	20%	100V
C526	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C527	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C529	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C530	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
		< CONNECTOR >			
CN502	1-695-775-11	CONNECTOR, FFC/FPC 19P			
* CNP501	1-569-496-11	SOCKET, CONNECTOR 10P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D501	8-719-200-02	DIODE	10E2		
D502	8-719-200-02	DIODE	10E2		
D503	8-719-200-02	DIODE	10E2		
D504	8-719-200-02	DIODE	10E2		
D506	8-719-200-02	DIODE	10E2		
D507	8-719-200-02	DIODE	10E2		
D508	8-719-200-02	DIODE	10E2		
D509	8-719-200-02	DIODE	10E2		
D510	8-719-200-02	DIODE	10E2		
D511	8-719-200-02	DIODE	10E2		
D512	8-719-016-74	DIODE	1SS352		
D513	8-719-016-74	DIODE	1SS352		
D514	8-719-422-58	DIODE	MA8062		
D515	8-719-200-02	DIODE	10E2		
D516	8-719-200-02	DIODE	10E2		
D517	8-719-017-34	DIODE	02DZ20-TPHR3		
D518	8-719-422-46	DIODE	MA8056		
D519	8-719-016-74	DIODE	1SS352		
		< FUSE >			
⚠F501	1-532-777-21	FUSE, MICRO (SECONDARY) 1.25A 125V (CND)			
⚠F502	1-532-773-21	FUSE, MICRO (SECONDARY) 0.5A 125V (CND)			
		< IC >			
IC501	8-759-602-66	IC M5230L-A			
		< IC LINK >			
⚠ICP501	1-532-840-21	LINK, IC (PRF1250) (1.25A) (EXCEPT CND)			
⚠ICP502	1-532-836-21	LINK, IC (PRF500) (0.5A) (EXCEPT CND)			
		< TRANSISTOR >			
Q501	8-729-209-15	TRANSISTOR	2SD2012		
Q502	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q503	8-729-209-15	TRANSISTOR	2SD2012		
Q504	8-729-602-21	TRANSISTOR	2SC4154		
Q505	8-729-118-01	TRANSISTOR	2SB1116		
Q506	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q507	8-729-209-15	TRANSISTOR	2SD2012		
Q508	8-729-805-45	TRANSISTOR	2SC3395		
		< RESISTOR >			
R506	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R507	1-216-073-00	METAL CHIP	10K	5%	1/10W
R509	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R510	1-216-121-00	METAL CHIP	1M	5%	1/10W
R511	1-216-033-00	METAL CHIP	220	5%	1/10W

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER **SW (A)** **SW (B)** **SW-A** **SW-B**

Ref. No.	Part No.	Description			Remark
R512	1-216-043-00	METAL CHIP	560	5%	1/10W
R513	1-216-033-00	METAL CHIP	220	5%	1/10W
R514	1-216-043-00	METAL CHIP	560	5%	1/10W
R515	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R516	1-216-074-00	METAL CHIP	11K	5%	1/10W
R517	1-216-077-00	METAL CHIP	15K	5%	1/10W
R518	1-216-077-00	METAL CHIP	15K	5%	1/10W
R519	1-216-025-00	METAL CHIP	100	5%	1/10W
R520	1-216-025-00	METAL CHIP	100	5%	1/10W
⚠R521	1-215-857-11	METAL OXIDE	10	5%	1W F
R522	1-216-097-00	METAL CHIP	100K	5%	1/10W
R524	1-216-081-00	METAL CHIP	22K	5%	1/10W
R526	1-216-041-00	METAL CHIP	470	5%	1/10W
R527	1-216-041-00	METAL CHIP	470	5%	1/10W
R528	1-216-041-00	METAL CHIP	470	5%	1/10W
R529	1-216-041-00	METAL CHIP	470	5%	1/10W
		< TRANSFORMER >			
⚠T501	1-423-382-11	TRANSFORMER, POWER (EXCEPT CND)			
⚠T501	1-423-699-11	TRANSFORMER, POWER (CND)			
**********					
*	1-645-870-11	SW (A) BOARD			
		**********			
		< CONNECTOR >			
CN352	1-580-484-11	SOCKET, CONNECTOR 5P			
		< RESISTOR >			
R365	1-216-029-00	METAL CHIP	150	5%	1/10W
R366	1-216-033-00	METAL CHIP	220	5%	1/10W
		< SWITCH >			
S918	1-554-303-21	SWITCH, TACTILE (□) (DECK A)			
S919	1-554-303-21	SWITCH, TACTILE (▷) (DECK A)			
S920	1-554-303-21	SWITCH, TACTILE (◁) (DECK A)			
**********					
*	1-645-871-11	SW (B) BOARD			
		**********			
		< CONNECTOR >			
CN351	1-580-484-11	SOCKET, CONNECTOR 5P			
		< RESISTOR >			
R363	1-216-029-00	METAL CHIP	150	5%	1/10W
R364	1-216-033-00	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S915	1-554-303-21	SWITCH, TACTILE (□) (DECK B)			
S916	1-554-303-21	SWITCH, TACTILE (▷) (DECK B)			
S917	1-554-303-21	SWITCH, TACTILE (◁) (DECK B)			
**********					
*	1-634-841-14	SW-A BOARD			
		**********			
	3-343-419-01	HOLDER (S SENSOR A)			
		< CONNECTOR >			
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P			
		< PHOTO REFLECTOR >			
IC81A	8-719-710-03	PHOTO REFLECTOR NJL5165K-B			
		< RESISTOR >			
R84	1-249-417-11	CARBON	1K	5%	1/4W
R85	1-249-408-11	CARBON	180	5%	1/4W
		< SWITCH >			
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP DET)			
S82	1-571-281-21	SWITCH, LEAF (CrO2 DET)			
S86	1-571-281-21	SWITCH, LEAF (HALF DET)			
**********					
*	1-634-841-14	SW-B BOARD			
		**********			
	3-343-419-01	HOLDER (S SENSOR A)			
		< CONNECTOR >			
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P			
		< PHOTO REFLECTOR >			
IC81B	8-719-710-03	PHOTO REFLECTOR NJL5165K-B			
		< RESISTOR >			
R81	1-249-414-11	CARBON	560	5%	1/4W
R82	1-247-818-11	CARBON	300	5%	1/4W
R83	1-247-834-11	CARBON	1.3K	5%	1/4W
R84	1-249-417-11	CARBON	1K	5%	1/4W
R85	1-249-408-11	CARBON	180	5%	1/4W
		< SWITCH >			
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP DET)			
S82	1-571-281-21	SWITCH, LEAF (CrO2 DET)			
S83	1-571-281-21	SWITCH, LEAF (METAL DET)			

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Ref. No.	Part No.	Description			Remark
S84	1-571-281-21	SWITCH, LEAF (ERASE PROOF (SIDE A))			
S85	1-571-281-21	SWITCH, LEAF (ERASE PROOF (SIDE B))			
S86	1-571-281-21	SWITCH, LEAF (HALF DET)			
**********					
*	A-2006-966-A	TC MAIN BOARD, COMPLETE (AEP, UK, IT)			
*	A-2006-990-A	TC MAIN BOARD, COMPLETE (E, AUS, EA, JE, MY, SP)			
*	A-2007-032-A	TC MAIN BOARD, COMPLETE (German)			
*	A-2007-050-A	TC MAIN BOARD, COMPLETE (CND)			
		**********			
		< CAPACITOR >			
C101	1-136-157-00	FILM	0.022uF	5%	50V
C102	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C103	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C104	1-106-351-00	MYLAR	2200PF	5%	200V
C105	1-106-351-00	MYLAR	2200PF	5%	200V
C106	1-124-925-11	ELECT	2.2uF	20%	100V
C107	1-136-174-00	FILM	0.56uF	5%	50V
C108	1-136-171-00	FILM	0.33uF	5%	50V
C109	1-124-927-11	ELECT	4.7uF	20%	100V
C110	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C111	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C112	1-124-903-11	ELECT	1uF	20%	50V
C113	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C114	1-124-927-11	ELECT	4.7uF	20%	100V
C115	1-124-925-11	ELECT	2.2uF	20%	100V
C116	1-124-257-00	ELECT	2.2uF	20%	50V
C117	1-124-257-00	ELECT	2.2uF	20%	50V
C118	1-124-257-00	ELECT	2.2uF	20%	50V
C119	1-163-103-00	CERAMIC CHIP (EXCEPT CND)	27PF	5%	50V
C119	1-163-111-00	CERAMIC CHIP (CND)	56PF	5%	50V
C120	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C201	1-136-157-00	FILM	0.022uF	5%	50V
C202	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C203	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C204	1-106-351-00	MYLAR	2200PF	5%	200V
C205	1-106-351-00	MYLAR	2200PF	5%	200V
C206	1-124-925-11	ELECT	2.2uF	20%	100V
C207	1-136-174-00	FILM	0.56uF	5%	50V
C208	1-136-171-00	FILM	0.33uF	5%	50V
C209	1-124-927-11	ELECT	4.7uF	20%	100V
C210	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C211	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C212	1-124-903-11	ELECT	1uF	20%	50V
C213	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C214	1-124-927-11	ELECT	4.7uF	20%	100V
C215	1-124-925-11	ELECT	2.2uF	20%	100V
C216	1-124-257-00	ELECT	2.2uF	20%	50V
C217	1-124-257-00	ELECT	2.2uF	20%	50V
C218	1-124-257-00	ELECT	2.2uF	20%	50V
C219	1-163-103-00	CERAMIC CHIP (EXCEPT CND)	27PF	5%	50V
C219	1-163-111-00	CERAMIC CHIP (CND)	56PF	5%	50V
C220	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-124-907-11	ELECT	10uF	20%	50V
C603	1-124-903-11	ELECT	1uF	20%	50V
C604	1-124-903-11	ELECT	1uF	20%	50V
C605	1-124-903-11	ELECT	1uF	20%	50V
C606	1-124-903-11	ELECT	1uF	20%	50V
C608	1-124-927-11	ELECT	4.7uF	20%	100V
C609	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C610	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C611	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C612	1-126-177-11	ELECT	100uF	20%	10V
C613	1-126-177-11	ELECT	100uF	20%	10V
C615	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C617	1-124-477-11	ELECT	47uF	20%	25V
C618	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C620	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C621	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C622	1-124-472-11	ELECT	470uF	20%	10V
C623	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C624	1-124-472-11	ELECT	470uF	20%	10V
C625	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C626	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C627	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C629	1-126-157-11	ELECT	10uF	20%	16V
C630	1-124-916-11	ELECT	22uF	20%	63V
C631	1-124-257-00	ELECT	2.2uF	20%	50V
C632	1-124-589-11	ELECT	47uF	20%	16V
C633	1-124-478-11	ELECT	100uF	20%	25V
C634	1-124-477-11	ELECT	47uF	20%	25V
C6009	1-124-907-11	ELECT	10uF	20%	50V
C6010	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C6011	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C6012	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C6013	1-124-478-11	ELECT	100uF	20%	25V
C6021	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6022	1-124-927-11	ELECT	4.7uF	20%	100V
C6023	1-126-163-11	ELECT	4.7uF	20%	50V
C6024	1-124-257-00	ELECT	2.2uF	20%	50V
C6025	1-124-257-00	ELECT	2.2uF	20%	50V
C6029	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V

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Ref. No.	Part No.	Description			Remark
C6030	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6031	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C6033	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6034	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6035	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6036	1-124-257-00	ELECT	2.2uF	20%	50V
C6061	1-124-443-00	ELECT	100uF	20%	10V
C6062	1-124-902-00	ELECT	0.47uF	20%	50V
		< CONNECTOR >			
CN601	1-573-101-11	SOCKET, CONNECTOR 9P			
CN602	1-580-783-11	CONNECTOR, BOARD TO BOARD 10P			
CN603	1-573-101-11	SOCKET, CONNECTOR 9P			
CN604	1-580-783-11	CONNECTOR, BOARD TO BOARD 10P			
CN605	1-695-739-11	CONNECTOR, FFC/FPC 19P			
CN606	1-580-475-11	SOCKET, CONNECTOR 16P			
CN607	1-580-783-11	CONNECTOR, BOARD TO BOARD 10P			
		< DIODE >			
D101	8-719-016-74	DIODE	1SS352		
D201	8-719-016-74	DIODE	1SS352		
D601	8-719-422-91	DIODE	MA8091		
D602	8-719-016-74	DIODE	1SS352		
D603	8-719-016-74	DIODE	1SS352		
D604	8-719-016-74	DIODE	1SS352		
D605	8-719-016-74	DIODE	1SS352		
D606	8-719-016-74	DIODE	1SS352		
D607	8-719-210-33	DIODE	EC10DS2		
D608	8-719-210-33	DIODE	EC10DS2		
D609	8-719-016-74	DIODE	1SS352		
D610	8-719-016-74	DIODE	1SS352		
D611	8-719-016-74	DIODE	1SS352		
D612	8-719-016-84	DIODE	02DZ2.0-TPH3		
D6010	8-719-016-74	DIODE	1SS352		
D6011	8-719-016-74	DIODE	1SS352		
		< IC >			
IC101	8-759-300-71	IC	HD14053BFP		
IC102	8-752-037-90	IC	CXA1331M		
IC103	8-752-055-60	IC	CXA1578M		
IC104	8-759-636-55	IC	M5218AFP		
IC105	8-759-516-47	IC	CD4066BCM		
IC106	8-759-636-55	IC	M5218AFP		
IC107	8-759-634-96	IC	M5207L05		
IC108	8-759-636-55	IC	M5218AFP		
IC109	8-759-516-47	IC	CD4066BCM		
IC601	8-759-163-38	IC	M38022M4-072FP		
IC602	8-759-636-67	IC	M50925-482FP		
IC603	8-759-207-05	IC	TA7272P		
IC604	8-759-636-55	IC	M5218AFP		
IC605	8-759-516-41	IC	CD4052BCM		
IC6001	8-759-520-90	IC	PST572E		
		< INDUCTOR >			
L6001	1-410-482-31	INDUCTOR	100uH		
L6002	1-410-470-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q101	8-729-207-56	TRANSISTOR	RN1402		
Q102	8-729-602-21	TRANSISTOR	2SC4154		
Q201	8-729-207-56	TRANSISTOR	RN1402		
Q202	8-729-602-21	TRANSISTOR	2SC4154		
Q601	8-729-805-65	TRANSISTOR	2SA1344		
Q602	8-729-805-65	TRANSISTOR	2SA1344		
Q603	8-729-207-56	TRANSISTOR	RN1402		
Q604	8-729-805-65	TRANSISTOR	2SA1344		
Q605	8-729-901-06	TRANSISTOR	DTA144EK		
Q606	8-729-805-65	TRANSISTOR	2SA1344		
Q607	8-729-805-65	TRANSISTOR	2SA1344		
Q608	8-729-805-65	TRANSISTOR	2SA1344		
Q609	8-729-602-21	TRANSISTOR	2SC4154		
Q611	8-729-805-65	TRANSISTOR	2SA1344		
Q612	8-729-207-56	TRANSISTOR	RN1402		
Q613	8-729-207-56	TRANSISTOR	RN1402		
Q616	8-729-804-41	TRANSISTOR	2SB1122-S		
Q617	8-729-804-41	TRANSISTOR	2SB1122-S		
Q620	8-729-805-65	TRANSISTOR	2SA1344		
Q624	8-729-805-40	TRANSISTOR	2SC3900		
Q625	8-729-602-36	TRANSISTOR	2SA1602		
Q627	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q628	8-729-602-36	TRANSISTOR	2SA1602		
Q629	8-729-207-56	TRANSISTOR	RN1402		
Q630	8-729-805-40	TRANSISTOR	2SC3900		
Q631	8-729-207-56	TRANSISTOR	RN1402		
Q632	8-729-805-65	TRANSISTOR	2SA1344		
Q633	8-729-805-65	TRANSISTOR	2SA1344		
Q634	8-729-602-36	TRANSISTOR	2SA1602		
Q635	8-729-207-56	TRANSISTOR	RN1402		
Q636	8-729-207-56	TRANSISTOR	RN1402		
Q637	8-729-207-56	TRANSISTOR	RN1402		
Q641	8-729-207-56	TRANSISTOR	RN1402		
Q642	8-729-207-56	TRANSISTOR	RN1402		
Q643	8-729-207-56	TRANSISTOR	RN1402		
Q644	8-729-207-56	TRANSISTOR	RN1402		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-216-089-00	METAL CHIP	47K	5%	1/10W
R102	1-216-089-00	METAL CHIP	47K	5%	1/10W
R103	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R104	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R105	1-216-105-00	METAL CHIP	220K	5%	1/10W
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W
R107	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R108	1-216-043-00	METAL CHIP	560	5%	1/10W
R109	1-216-073-00	METAL CHIP	10K	5%	1/10W
R110	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R111	1-216-097-00	METAL CHIP	100K	5%	1/10W
R112	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R114	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R115	1-216-105-00	METAL CHIP	220K	5%	1/10W
R116	1-216-049-00	METAL CHIP	1K	5%	1/10W
R117	1-216-081-00	METAL CHIP	22K	5%	1/10W
R118	1-216-085-00	METAL CHIP	33K	5%	1/10W
R119	1-216-035-00	METAL CHIP	270	5%	1/10W
R120	1-216-049-00	METAL CHIP	1K	5%	1/10W
R121	1-216-097-00	METAL CHIP	100K	5%	1/10W
R122	1-216-081-00	METAL CHIP	22K	5%	1/10W
R123	1-216-105-00	METAL CHIP	220K	5%	1/10W
R128	1-216-105-00	METAL CHIP	220K	5%	1/10W
R201	1-216-089-00	METAL CHIP	47K	5%	1/10W
R202	1-216-089-00	METAL CHIP	47K	5%	1/10W
R203	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R204	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R205	1-216-105-00	METAL CHIP	220K	5%	1/10W
R206	1-216-073-00	METAL CHIP	10K	5%	1/10W
R207	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R208	1-216-043-00	METAL CHIP	560	5%	1/10W
R209	1-216-073-00	METAL CHIP	10K	5%	1/10W
R210	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R211	1-216-097-00	METAL CHIP	100K	5%	1/10W
R212	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R213	1-216-089-00	METAL CHIP	47K	5%	1/10W
R214	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R215	1-216-105-00	METAL CHIP (EXCEPT CND)	220K	5%	1/10W
R216	1-216-049-00	METAL CHIP	1K	5%	1/10W
R217	1-216-081-00	METAL CHIP	22K	5%	1/10W
R218	1-216-085-00	METAL CHIP	33K	5%	1/10W
R219	1-216-035-00	METAL CHIP	270	5%	1/10W
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W
R221	1-216-097-00	METAL CHIP	100K	5%	1/10W
R222	1-216-081-00	METAL CHIP	22K	5%	1/10W
R223	1-216-105-00	METAL CHIP	220K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R228	1-216-105-00	METAL CHIP (EXCEPT CND)	220K	5%	1/10W
R601	1-216-081-00	METAL CHIP	22K	5%	1/10W
R602	1-216-081-00	METAL CHIP	22K	5%	1/10W
R603	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R605	1-216-081-00	METAL CHIP	22K	5%	1/10W
R606	1-216-081-00	METAL CHIP	22K	5%	1/10W
R607	1-216-081-00	METAL CHIP	22K	5%	1/10W
R608	1-216-049-00	METAL CHIP	1K	5%	1/10W
R609	1-216-083-00	METAL CHIP	27K	5%	1/10W
R610	1-216-083-00	METAL CHIP	27K	5%	1/10W
R611	1-216-077-00	METAL CHIP	15K	5%	1/10W
R612	1-216-081-00	METAL CHIP	22K	5%	1/10W
R613	1-216-089-00	METAL CHIP	47K	5%	1/10W
R614	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R615	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R616	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R617	1-216-097-00	METAL CHIP	100K	5%	1/10W
R618	1-216-097-00	METAL CHIP	100K	5%	1/10W
R619	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R620	1-216-105-00	METAL CHIP (EXCEPT CND)	220K	5%	1/10W
R621	1-216-073-00	METAL CHIP	10K	5%	1/10W
R622	1-216-097-00	METAL CHIP	100K	5%	1/10W
R623	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R624	1-216-096-00	METAL GLAZE	91K	5%	1/10W
R625	1-216-105-00	METAL CHIP (EXCEPT CND)	220K	5%	1/10W
R626	1-216-101-00	METAL CHIP	150K	5%	1/10W
R627	1-216-081-00	METAL CHIP	22K	5%	1/10W
R628	1-216-073-00	METAL CHIP	10K	5%	1/10W
R629	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R630	1-216-081-00	METAL CHIP	22K	5%	1/10W
R631	1-216-081-00	METAL CHIP	22K	5%	1/10W
R632	1-216-025-00	METAL CHIP	100	5%	1/10W
R633	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R634	1-216-081-00	METAL CHIP	22K	5%	1/10W
R635	1-216-081-00	METAL CHIP	22K	5%	1/10W
R636	1-216-081-00	METAL CHIP	22K	5%	1/10W
R637	1-216-081-00	METAL CHIP	22K	5%	1/10W
R638	1-216-081-00	METAL CHIP	22K	5%	1/10W
R639	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R640	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R641	1-216-073-00	METAL CHIP	10K	5%	1/10W
R642	1-216-089-00	METAL CHIP	47K	5%	1/10W
R643	1-216-089-00	METAL CHIP	47K	5%	1/10W
R644	1-216-025-00	METAL CHIP	100	5%	1/10W
R645	1-216-089-00	METAL CHIP	47K	5%	1/10W
R646	1-216-081-00	METAL CHIP	22K	5%	1/10W

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Ref.No.	Part No.	Description			Remark
R647	1-216-025-00	METAL CHIP	100	5%	1/10W
R648	1-216-025-00	METAL CHIP	100	5%	1/10W
R649	1-216-025-00	METAL CHIP	100	5%	1/10W
R650	1-216-121-00	METAL CHIP	1M	5%	1/10W
R651	1-216-081-00	METAL CHIP	22K	5%	1/10W
R652	1-216-081-00	METAL CHIP	22K	5%	1/10W
R653	1-216-073-00	METAL CHIP	10K	5%	1/10W
R654	1-216-073-00	METAL CHIP	10K	5%	1/10W
R655	1-216-089-00	METAL CHIP	47K	5%	1/10W
R656	1-216-073-00	METAL CHIP	10K	5%	1/10W
R657	1-216-043-00	METAL CHIP	560	5%	1/10W
R658	1-216-081-00	METAL CHIP	22K	5%	1/10W
R659	1-216-029-00	METAL CHIP	150	5%	1/10W
R660	1-216-081-00	METAL CHIP	22K	5%	1/10W
R661	1-216-083-00	METAL CHIP	27K	5%	1/10W
R662	1-216-083-00	METAL CHIP	27K	5%	1/10W
R663	1-216-073-00	METAL CHIP	10K	5%	1/10W
R664	1-216-045-00	METAL CHIP	680	5%	1/10W
R665	1-216-073-00	METAL CHIP	10K	5%	1/10W
R666	1-216-045-00	METAL CHIP	680	5%	1/10W
R667	1-216-025-00	METAL CHIP	100	5%	1/10W
R668	1-216-090-00	METAL CHIP	51K	5%	1/10W
R669	1-216-089-00	METAL CHIP	47K	5%	1/10W
R670	1-216-084-00	METAL CHIP	30K	5%	1/10W
R671	1-216-090-00	METAL CHIP	51K	5%	1/10W
R672	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R673	1-216-080-00	METAL CHIP	20K	5%	1/10W
R674	1-216-083-00	METAL CHIP	27K	5%	1/10W
R675	1-216-080-00	METAL CHIP	20K	5%	1/10W
R676	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R677	1-216-089-00	METAL CHIP	47K	5%	1/10W
R678	1-216-084-00	METAL CHIP	30K	5%	1/10W
R679	1-216-083-00	METAL CHIP	27K	5%	1/10W
R680	1-216-090-00	METAL CHIP	51K	5%	1/10W
R681	1-216-090-00	METAL CHIP	51K	5%	1/10W
R682	1-216-025-00	METAL CHIP	100	5%	1/10W
R683	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R684	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R685	1-216-025-00	METAL CHIP	100	5%	1/10W
R686	1-216-025-00	METAL CHIP	100	5%	1/10W
R687	1-216-081-00	METAL CHIP	22K	5%	1/10W
R688	1-216-029-00	METAL CHIP	150	5%	1/10W
R689	1-216-025-00	METAL CHIP	100	5%	1/10W
R690	1-216-025-00	METAL CHIP	100	5%	1/10W
R691	1-216-025-00	METAL CHIP	100	5%	1/10W
R692	1-216-081-00	METAL CHIP	22K	5%	1/10W
R694	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R695	1-216-073-00	METAL CHIP	10K	5%	1/10W
R696	1-216-091-00	METAL CHIP	56K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R697	1-216-060-00	METAL GLAZE	3K	5%	1/10W (CND)
R697	1-216-063-00	METAL CHIP (EXCEPT CND)	3.9K	5%	1/10W
R698	1-216-075-00	METAL CHIP	12K	5%	1/10W (CND)
R698	1-216-083-00	METAL CHIP (EXCEPT CND)	27K	5%	1/10W
R699	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R700	1-216-073-00	METAL CHIP	10K	5%	1/10W
R6002	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R6003	1-216-073-00	METAL CHIP	10K	5%	1/10W
R6004	1-216-089-00	METAL CHIP	47K	5%	1/10W
R6005	1-216-089-00	METAL CHIP	47K	5%	1/10W
R6010	1-216-049-00	METAL CHIP	1K	5%	1/10W
R6011	1-216-097-00	METAL CHIP	100K	5%	1/10W
R6012	1-216-049-00	METAL CHIP	1K	5%	1/10W
R6013	1-216-085-00	METAL CHIP	33K	5%	1/10W
R6014	1-216-079-00	METAL CHIP	18K	5%	1/10W
R6016	1-216-073-00	METAL CHIP	10K	5%	1/10W
R6017	1-216-071-00	METAL CHIP (EXCEPT CND)	8.2K	5%	1/10W
R6017	1-216-075-00	METAL CHIP	12K	5%	1/10W (CND)
R6018	1-216-081-00	METAL CHIP	22K	5%	1/10W
R6050	1-216-025-00	METAL CHIP	100	5%	1/10W
R6061	1-216-081-00	METAL CHIP	22K	5%	1/10W
R6062	1-216-035-00	METAL CHIP	270	5%	1/10W
R6063	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R6070	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R6071	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

< VARIABLE RESISTOR >

RV101	1-241-136-11	RES, ADJ, CARBON 10K
RV201	1-241-136-11	RES, ADJ, CARBON 10K

< TEST PIN >

* TP601	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P

< VIBRATOR >

X601	1-577-358-21	VIBRATOR, CERAMIC (4MHz)

****

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
7	1-696-747-11	WIRE (FLAT TYPE) (5 CORE)	
69	1-590-902-11	WIRE (FLAT TYPE) (9 CORE)	
70	1-696-748-11	WIRE (FLAT TYPE) (19 CORE)	
* 72	1-690-880-31	LEAD (WITH CONNECTOR)	
HP101	A-2003-837-F	BASE ASSY, HEAD (DECK A)	
HRPE101	A-2003-838-A	BASE ASSY, HEAD (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	

****

****
HARDWARE LIST
****

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#2	7-621-255-15	SCREW +PTT 2X3 (S)
#3	7-621-775-00	SCREW +B 2.6X3
#4	7-621-770-67	SCREW +PTT 2.6X6 (S)
#5	7-627-556-08	SCREW +P 2.6X2.8
#6	7-621-849-00	SCREW, TAPPING

9-957-618-12

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TC-H6800

SONY
SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

SUPPLEMENT-1

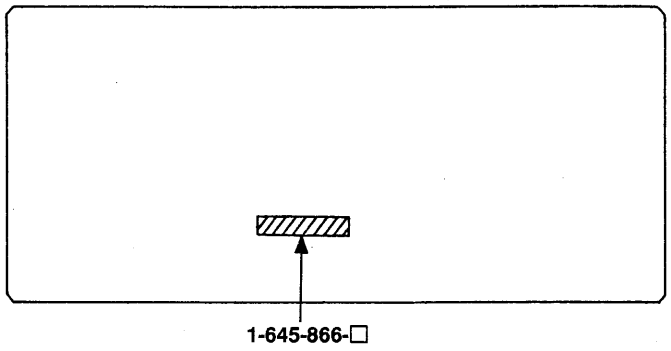
File this Supplement with the Service Manual.

Subject : TC MAIN and PANEL board change

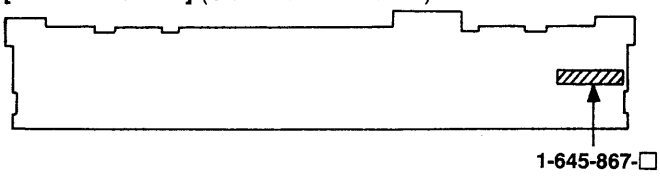
- This SUPPLEMENT-1 is equivalent to the suffix No. 15.
  There is no interchangeability with the suffix No. from 11 to 14.

Parts No. Location :

[TC MAIN BOARD] (COMPONENT SIDE)



[PANEL BOARD] (COMPONENT SIDE)



SERVICING NOTE

About interchangeability

- Combination bettween "TC MAIN Board, complete" and "PANEL Board, complete".

		TC MAIN Board	
		Suffix No. 11 to 14	Suffix No. 15
PANEL Board	Suffix No. 11 to 14	○	×
	Suffix No. 15	×	○

- The No. of complete boards are differ from board to board as below.

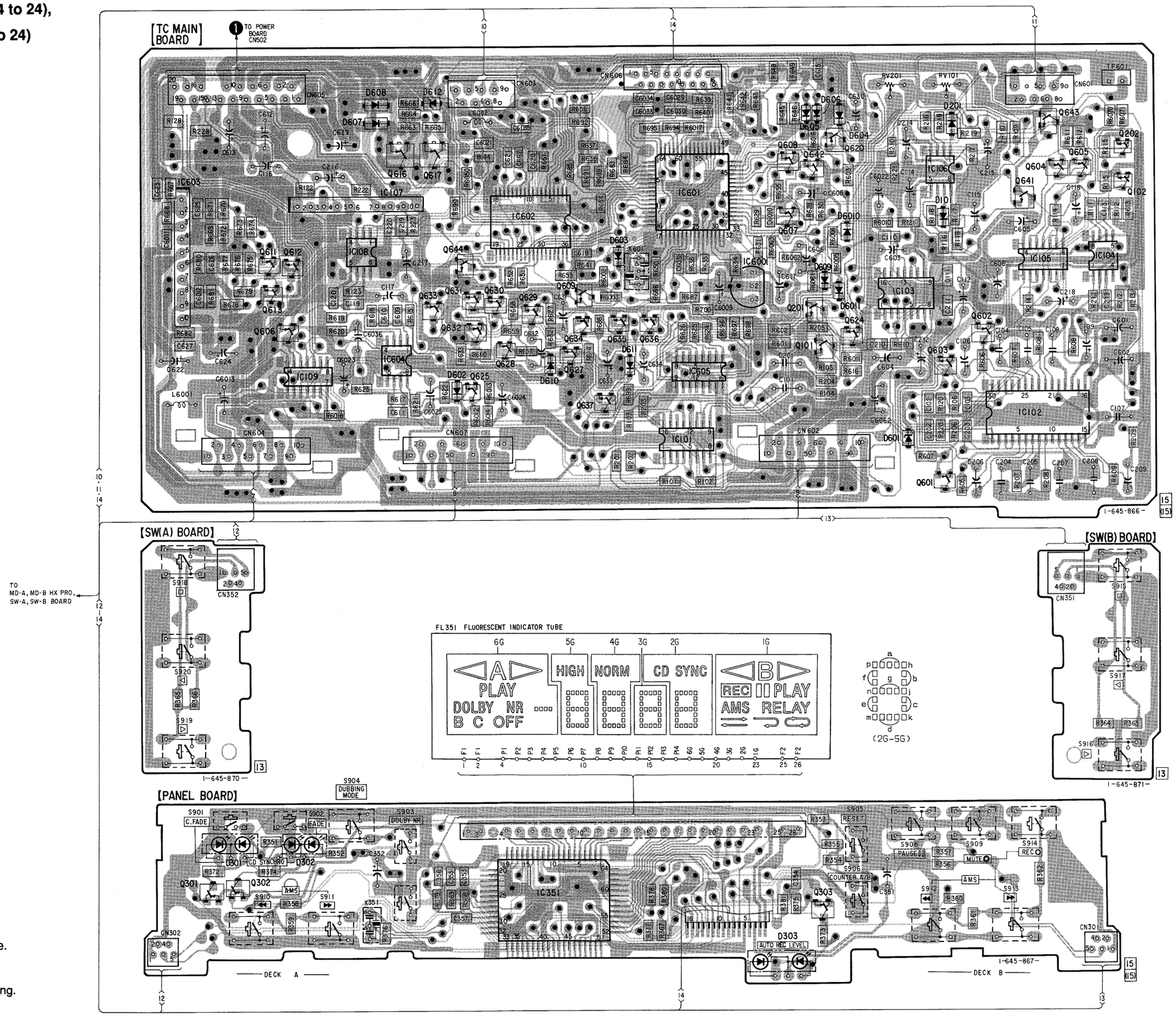
Suffix No.	11 to 14	15
TC MAIN Board	* A-2006-966-A (AEP, UK, IT) * A-2006-990-A (E, AUS, EA, JE, MY, SP) * A-2007-032-A (German) * A-2007-050-A (CND)	* A-2007-273-A (All destination)
PANEL Board	* A-2006-967-A (AEP, UK, IT) * A-2006-991-A (E, AUS, EA, JE, MY, SP) * A-2007-032-A (German) * A-2007-051-A (CND)	* A-2007-272-A (All destination)

● Abbreviations

CND : Canadian model
IT : Italian model
AUS : Australian model
EA : Saudi Arabia model
JE : Tourist model
MY : Malaysia model
SP : Singapore model

PRINTED WIRING BOARDS (Service Manual Page 13, 14.)

[TC MAIN BOARD] ADDRESS (A to F, 14 to 24),
[PANEL BOARD] ADDRESS (I to K, 14 to 24)

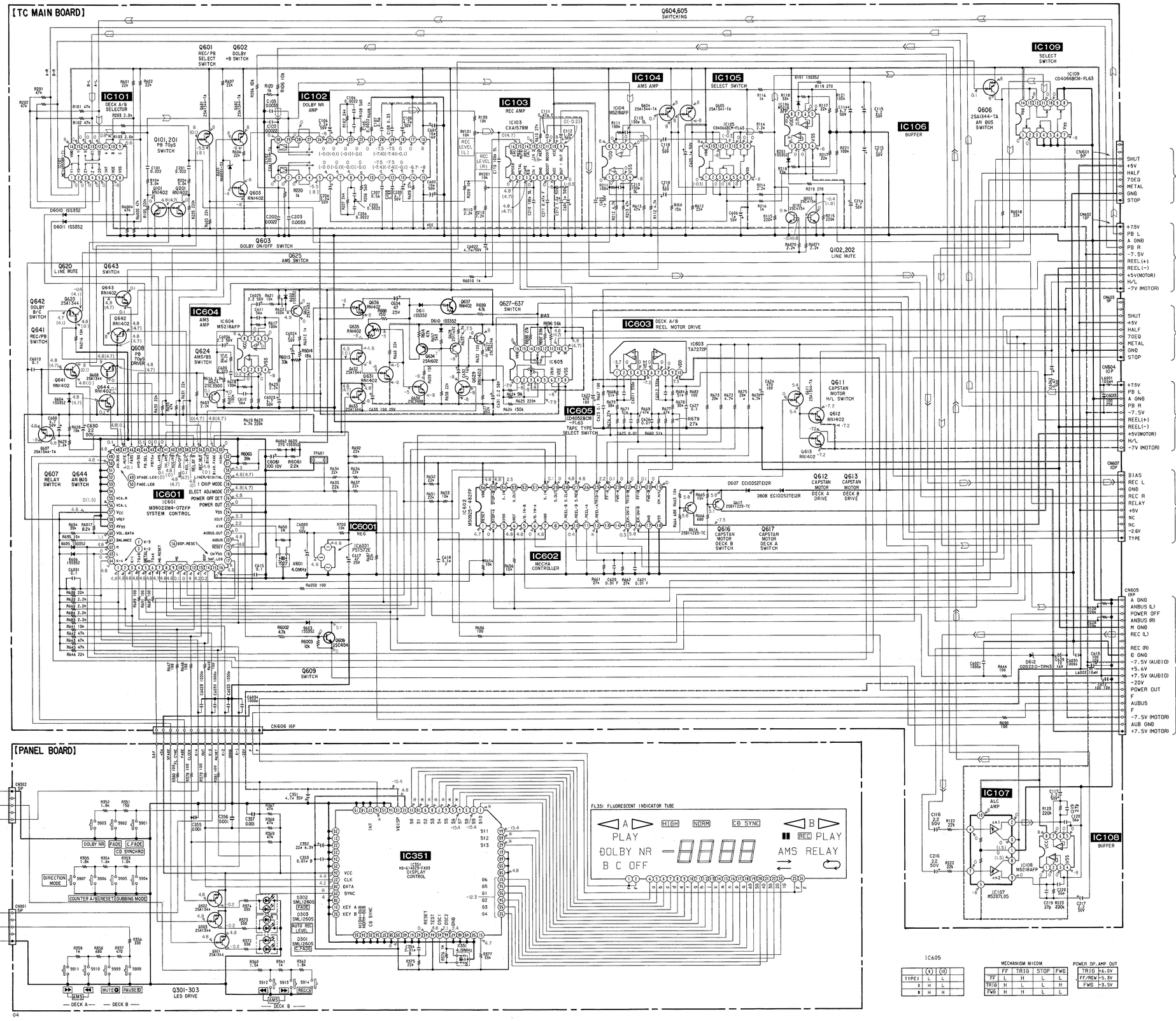


Note:

- ○—— : parts extracted from the component side.
- ● : Through hole.
- △ : internal component..
- ▬ : Pattern from the side which enable seeing.
- ▬ : Pattern of the rear side.

SCHEMATIC DIAGRAM (Service Manual Page 15 to 17.)

[TC MAIN BOARD] [PANEL BOARD] ADDRESS (A to O, 2 to 18)



Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- ═══ : B+ Line
- ▫▫▫▫▫ : B− Line
- ▭ : adjustment for repair.
- Power voltage is AC18V and fed with regulated dc power supply from pins ⑭ and ⑯ on CNJ401 (Control board).
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PB
  ( ) : REC
  ✻ : can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : PB (DECK A)
  ▷ : PB (DECK B)
  ▷» : REC (DECK B)

PANEL

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH

Ref. No.	Part No.	Description			Remark
*	A-2007-272-A	PANEL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C351	1-126-163-11	ELECT	4.7uF	20%	50V
C352	1-124-638-11	ELECT	22uF	20%	10V
C353	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C354	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C355	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C356	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C357	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
		< CONNECTOR >			
CN301	1-580-472-11	SOCKET, CONNECTOR 5P			
CN302	1-580-472-11	SOCKET, CONNECTOR 5P			
CN303	1-696-749-11	WIRE (FLAT TYPE) (16 CORE)			
		< DIODE >			
D301	8-719-026-64	DIODE	SML1260S (CD SYNCHRO FADE)		
D302	8-719-026-64	DIODE	SML1260S (AUTO REC LEVEL)		
D303	8-719-026-64	DIODE	SML1260S (CD SYNCHRO C.FADE)		
		< FLUORESCENT INDICATOR >			
FL351	1-519-638-11	INDICATOR TUBE, FLUORESCENT			
		< HOLDER >			
* HL301	3-367-839-01	HOLDER, FL TUBE			
		< IC >			
IC351	8-759-323-35	IC	HD-614023-FA93		
		< TRANSISTOR >			
Q301	8-729-805-65	TRANSISTOR	2SA1344		
Q302	8-729-805-65	TRANSISTOR	2SA1344		
Q303	8-729-805-65	TRANSISTOR	2SA1344		
		< RESISTOR >			
R351	1-216-029-00	METAL CHIP	150	5%	1/10W
R352	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R353	1-216-049-00	METAL CHIP	1K	5%	1/10W
R354	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R355	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R356	1-216-037-00	METAL CHIP	330	5%	1/10W
R357	1-216-041-00	METAL CHIP	470	5%	1/10W
R358	1-216-045-00	METAL CHIP	680	5%	1/10W
R359	1-216-049-00	METAL CHIP	1K	5%	1/10W
R360	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R361	1-216-049-00	METAL CHIP	1K	5%	1/10W
R362	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R367	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R368	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R369	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R372	1-216-037-00	METAL CHIP	330	5%	1/10W
R373	1-216-037-00	METAL CHIP	330	5%	1/10W
R374	1-216-037-00	METAL CHIP	330	5%	1/10W
R375	1-216-081-00	METAL CHIP	22K	5%	1/10W
R376	1-216-121-00	METAL CHIP	1M	5%	1/10W
R377	1-216-085-00	METAL CHIP	33K	5%	1/10W
R378	1-216-025-00	METAL CHIP	100	5%	1/10W
R379	1-216-025-00	METAL CHIP	100	5%	1/10W
R380	1-216-025-00	METAL CHIP	100	5%	1/10W
R381	1-216-025-00	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S901	1-572-184-11	SWITCH, KEYBOARD (CD SYNCHRO C.FADE)			
S902	1-572-184-11	SWITCH, KEYBOARD (CD SYNCHRO FADE)			
S903	1-572-184-11	SWITCH, KEYBOARD (DOLBY NR)			
S904	1-554-303-21	SWITCH, TACTILE (DUBBING MODE)			
S905	1-572-184-11	SWITCH, KEYBOARD (RESET)			
S906	1-572-184-11	SWITCH, KEYBOARD (COUNTER A/B)			
S907	1-572-184-11	SWITCH, KEYBOARD (DIRECTION MODE)			
S908	1-554-303-21	SWITCH, TACTILE (PAUSE ▯▯)			
S909	1-554-303-21	SWITCH, TACTILE (MUTE ●)			
S910	1-554-303-21	SWITCH, TACTILE (AMS ◀◀) (DECK A)			
S911	1-554-303-21	SWITCH, TACTILE (AMS ▶▶) (DECK A)			
S912	1-554-303-21	SWITCH, TACTILE (AMS ◀◀) (DECK B)			
S913	1-554-303-21	SWITCH, TACTILE (AMS ▶▶) (DECK B)			
S914	1-554-303-21	SWITCH, TACTILE (REC ○)			
		< VIBRATOR >			
X351	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			
		**********			

Ref.No.	Part No.	Description			Remark
*	A-2007-273-A	TC MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-136-157-00	FILM	0.022uF	5%	50V
C102	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C103	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C104	1-106-351-00	MYLAR	2200PF	5%	200V
C105	1-106-351-00	MYLAR	2200PF	5%	200V
C106	1-124-925-11	ELECT	2.2uF	20%	100V
C107	1-136-174-00	FILM	0.56uF	5%	50V
C108	1-136-171-00	FILM	0.33uF	5%	50V
C109	1-124-927-11	ELECT	4.7uF	20%	100V
C110	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C111	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C112	1-124-903-11	ELECT	1uF	20%	50V
C113	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C114	1-124-927-11	ELECT	4.7uF	20%	100V
C115	1-124-925-11	ELECT	2.2uF	20%	100V
C116	1-124-257-00	ELECT	2.2uF	20%	50V
C117	1-124-257-00	ELECT	2.2uF	20%	50V
C118	1-124-257-00	ELECT	2.2uF	20%	50V
C119	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C120	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C201	1-136-157-00	FILM	0.022uF	5%	50V
C202	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C203	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C204	1-106-351-00	MYLAR	2200PF	5%	200V
C205	1-106-351-00	MYLAR	2200PF	5%	200V
C206	1-124-925-11	ELECT	2.2uF	20%	100V
C207	1-136-174-00	FILM	0.56uF	5%	50V
C208	1-136-171-00	FILM	0.33uF	5%	50V
C209	1-124-927-11	ELECT	4.7uF	20%	100V
C210	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C211	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C212	1-124-903-11	ELECT	1uF	20%	50V
C213	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C214	1-124-927-11	ELECT	4.7uF	20%	100V
C215	1-124-925-11	ELECT	2.2uF	20%	100V
C216	1-124-257-00	ELECT	2.2uF	20%	50V
C217	1-124-257-00	ELECT	2.2uF	20%	50V
C218	1-124-257-00	ELECT	2.2uF	20%	50V
C219	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C220	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-124-907-11	ELECT	10uF	20%	50V
C603	1-124-903-11	ELECT	1uF	20%	50V
C604	1-124-903-11	ELECT	1uF	20%	50V
C605	1-124-903-11	ELECT	1uF	20%	50V
C606	1-124-903-11	ELECT	1uF	20%	50V
C608	1-124-927-11	ELECT	4.7uF	20%	100V
C609	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C610	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C611	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C612	1-126-177-11	ELECT	100uF	20%	10V
C613	1-126-177-11	ELECT	100uF	20%	10V
C615	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C617	1-124-477-11	ELECT	47uF	20%	25V
C618	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C620	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C621	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C622	1-124-472-11	ELECT	470uF	20%	10V
C623	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C624	1-124-472-11	ELECT	470uF	20%	10V
C625	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C626	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C627	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C629	1-126-157-11	ELECT	10uF	20%	16V
C630	1-124-916-11	ELECT	22uF	20%	63V
C631	1-124-257-00	ELECT	2.2uF	20%	50V
C632	1-124-589-11	ELECT	47uF	20%	16V
C633	1-124-478-11	ELECT	100uF	20%	25V
C634	1-124-477-11	ELECT	47uF	20%	25V
C6009	1-124-907-11	ELECT	10uF	20%	50V
C6010	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C6011	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C6012	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C6013	1-124-478-11	ELECT	100uF	20%	25V
C6021	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6022	1-124-927-11	ELECT	4.7uF	20%	100V
C6023	1-126-163-11	ELECT	4.7uF	20%	50V
C6024	1-124-257-00	ELECT	2.2uF	20%	50V
C6025	1-124-257-00	ELECT	2.2uF	20%	50V
C6029	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6030	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6031	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C6033	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6034	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6035	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C6036	1-124-257-00	ELECT	2.2uF	20%	50V
C6061	1-124-443-00	ELECT	100uF	20%	10V
C6062	1-124-902-00	ELECT	0.47uF	20%	50V
		< CONNECTOR >			
CN601	1-573-101-11	SOCKET, CONNECTOR (NON ZIF) 9P			
CN602	1-580-783-11	CONNECTOR, BOARD TO BOARD			
CN603	1-573-101-11	SOCKET, CONNECTOR (NON ZIF) 9P			
CN604	1-580-783-11	CONNECTOR, BOARD TO BOARD			
CN605	1-695-739-11	CONNECTOR, FFC/FPC 19P			
CN606	1-580-475-11	SOCKET, CONNECTOR 16P			

TC MAIN

Ref. No.	Part No.	Description	Remark
CN607	1-580-783-11	CONNECTOR, BOARD TO BOARD	
		< DIODE >	
D101	8-719-016-74	DIODE 1SS352	
D201	8-719-016-74	DIODE 1SS352	
D601	8-719-422-91	DIODE MA8091	
D602	8-719-016-74	DIODE 1SS352	
D603	8-719-016-74	DIODE 1SS352	
D604	8-719-016-74	DIODE 1SS352	
D605	8-719-016-74	DIODE 1SS352	
D606	8-719-016-74	DIODE 1SS352	
D607	8-719-210-33	DIODE EC10DS2	
D608	8-719-210-33	DIODE EC10DS2	
D609	8-719-016-74	DIODE 1SS352	
D610	8-719-016-74	DIODE 1SS352	
D611	8-719-016-74	DIODE 1SS352	
D612	8-719-016-84	DIODE 02DZ2.0-TPH3	
D6010	8-719-016-74	DIODE 1SS352	
D6011	8-719-016-74	DIODE 1SS352	
		< IC >	
IC101	8-759-300-71	IC HD14053BFP	
IC102	8-752-037-90	IC CXA1331M	
IC103	8-752-055-60	IC CXA1578M	
IC104	8-759-636-55	IC M5218AFP	
IC105	8-759-516-47	IC CD4066BCM	
IC106	8-759-636-55	IC M5218AFP	
IC107	8-759-634-96	IC M5207L05	
IC108	8-759-636-55	IC M5218AFP	
IC109	8-759-516-47	IC CD4066BCM	
IC601	8-759-163-38	IC M38022M4-072FP	
IC602	8-759-636-67	IC M50925-482FP	
IC603	8-759-207-05	IC TA7272P	
IC604	8-759-636-55	IC M5218AFP	
IC605	8-759-516-41	IC CD4052BCM	
IC6001	8-759-520-90	IC PST572E	
		< COIL >	
L6001	1-410-482-31	INDUCTOR 100uH	
L6002	1-410-470-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	8-729-207-56	TRANSISTOR RN1402	
Q102	8-729-602-21	TRANSISTOR 2SC4154	
Q201	8-729-207-56	TRANSISTOR RN1402	
Q202	8-729-602-21	TRANSISTOR 2SC4154	
Q601	8-729-805-65	TRANSISTOR 2SA1344	
Q602	8-729-805-65	TRANSISTOR 2SA1344	
Q603	8-729-207-56	TRANSISTOR RN1402	
Q604	8-729-805-65	TRANSISTOR 2SA1344	
Q605	8-729-901-06	TRANSISTOR DTA144EK	
Q606	8-729-805-65	TRANSISTOR 2SA1344	
Q607	8-729-805-65	TRANSISTOR 2SA1344	
Q608	8-729-805-65	TRANSISTOR 2SA1344	
Q609	8-729-602-21	TRANSISTOR 2SC4154	
Q611	8-729-805-65	TRANSISTOR 2SA1344	
Q612	8-729-207-56	TRANSISTOR RN1402	
Q613	8-729-207-56	TRANSISTOR RN1402	
Q616	8-729-804-41	TRANSISTOR 2SB1122-S	
Q617	8-729-804-41	TRANSISTOR 2SB1122-S	
Q620	8-729-805-65	TRANSISTOR 2SA1344	
Q624	8-729-805-40	TRANSISTOR 2SC3900	
Q625	8-729-602-36	TRANSISTOR 2SA1602	
Q627	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q628	8-729-602-36	TRANSISTOR 2SA1602	
Q629	8-729-207-56	TRANSISTOR RN1402	
Q630	8-729-805-40	TRANSISTOR 2SC3900	
Q631	8-729-207-56	TRANSISTOR RN1402	
Q632	8-729-805-65	TRANSISTOR 2SA1344	
Q633	8-729-805-65	TRANSISTOR 2SA1344	
Q634	8-729-602-36	TRANSISTOR 2SA1602	
Q635	8-729-207-56	TRANSISTOR RN1402	
Q636	8-729-207-56	TRANSISTOR RN1402	
Q637	8-729-207-56	TRANSISTOR RN1402	
Q641	8-729-207-56	TRANSISTOR RN1402	
Q642	8-729-207-56	TRANSISTOR RN1402	
Q643	8-729-207-56	TRANSISTOR RN1402	
Q644	8-729-207-56	TRANSISTOR RN1402	
		< RESISTOR >	
R101	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R102	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R103	1-216-056-00	METAL GLAZE 2K 5% 1/10W	
R104	1-216-060-00	METAL GLAZE 3K 5% 1/10W	
R105	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R106	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R107	1-216-082-00	METAL GLAZE 24K 5% 1/10W	
R108	1-216-043-00	METAL CHIP 560 5% 1/10W	
R109	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R110	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R111	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R112	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R114	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R115	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R116	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R117	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R118	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R119	1-216-035-00	METAL CHIP 270 5% 1/10W	
R120	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R121	1-216-097-00	METAL CHIP 100K 5% 1/10W	

Ref. No.	Part No.	Description				Remark
R122	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R123	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R128	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R201	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R202	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R203	1-216-056-00	METAL GLAZE	2K	5%	1/10W	
R204	1-216-060-00	METAL GLAZE	3K	5%	1/10W	
R205	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R206	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R207	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R208	1-216-043-00	METAL CHIP	560	5%	1/10W	
R209	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R210	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R211	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R212	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R213	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R214	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R215	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R216	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R217	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R218	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R219	1-216-035-00	METAL CHIP	270	5%	1/10W	
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R221	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R222	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R223	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R228	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R601	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R602	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R603	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R605	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R606	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R607	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R608	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R609	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R610	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R611	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R612	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R613	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R614	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R615	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R616	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R617	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R618	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R619	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R620	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R621	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R622	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R623	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R624	1-216-096-00	METAL GLAZE	91K	5%	1/10W	
R625	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R626	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R627	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R628	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R629	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R630	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R631	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R632	1-216-025-00	METAL CHIP	100	5%	1/10W	
R633	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R634	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R635	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R636	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R637	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R638	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R639	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R640	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R641	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R642	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R643	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R644	1-216-025-00	METAL CHIP	100	5%	1/10W	
R645	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R646	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R647	1-216-025-00	METAL CHIP	100	5%	1/10W	
R648	1-216-025-00	METAL CHIP	100	5%	1/10W	
R649	1-216-025-00	METAL CHIP	100	5%	1/10W	
R650	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R651	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R652	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R653	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R654	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R655	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R656	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R657	1-216-043-00	METAL CHIP	560	5%	1/10W	
R658	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R659	1-216-029-00	METAL CHIP	150	5%	1/10W	
R660	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R661	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R662	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R663	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R664	1-216-045-00	METAL CHIP	680	5%	1/10W	
R665	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R666	1-216-045-00	METAL CHIP	680	5%	1/10W	
R667	1-216-025-00	METAL CHIP	100	5%	1/10W	
R668	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R669	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R670	1-216-084-00	METAL CHIP	30K	5%	1/10W	
R671	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R672	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R673	1-216-080-00	METAL CHIP	20K	5%	1/10W	
R674	1-216-083-00	METAL CHIP	27K	5%	1/10W	

TC MAIN

Ref.No.	Part No.	Description			Remark
R675	1-216-080-00	METAL CHIP	20K	5% 1/10W	
R676	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R677	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R678	1-216-084-00	METAL CHIP	30K	5% 1/10W	
R679	1-216-083-00	METAL CHIP	27K	5% 1/10W	
R680	1-216-090-00	METAL CHIP	51K	5% 1/10W	
R681	1-216-090-00	METAL CHIP	51K	5% 1/10W	
R682	1-216-025-00	METAL CHIP	100	5% 1/10W	
R683	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R684	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R685	1-216-025-00	METAL CHIP	100	5% 1/10W	
R686	1-216-025-00	METAL CHIP	100	5% 1/10W	
R687	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R688	1-216-029-00	METAL CHIP	150	5% 1/10W	
R689	1-216-025-00	METAL CHIP	100	5% 1/10W	
R690	1-216-025-00	METAL CHIP	100	5% 1/10W	
R691	1-216-025-00	METAL CHIP	100	5% 1/10W	
R692	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R694	1-216-689-11	METAL CHIP	39K	0.5% 1/10W	
R695	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R696	1-216-091-00	METAL CHIP	56K	5% 1/10W	
R697	1-216-063-00	METAL GLAZE	3.9K	5% 1/10W	
R698	1-216-083-00	METAL CHIP	27K	5% 1/10W	
R699	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R700	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R6002	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R6003	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R6004	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R6005	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R6010	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R6011	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R6012	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R6013	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R6014	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R6016	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R6017	1-216-071-00	METAL CHIP	8.2K	5% 1/10W	
R6018	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R6050	1-216-025-00	METAL CHIP	100	5% 1/10W	
R6061	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R6062	1-216-035-00	METAL CHIP	270	5% 1/10W	
R6063	1-216-689-11	METAL CHIP	39K	0.5% 1/10W	
R6070	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R6071	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
		< VARIABLE RESISTOR >			
RV101	1-241-785-11	RES, ADJ, CARBON 10K (REC LEVEL (L))			
RV201	1-241-785-11	RES, ADJ, CARBON 10K (REC LEVEL (R))			
		< TEST PIN >			
* TP601	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			

Ref.No.	Part No.	Description	Remark
		< VIBRATOR >	
X601	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	

9-957-618-81

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

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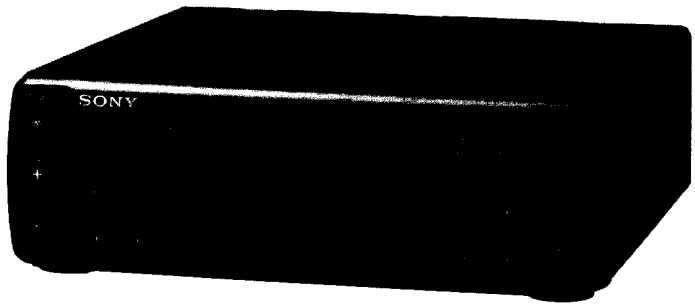
Quality Engineering Dept.

HCD-H6800

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model
Tourist Model



This set is the Tuner CD Player section in FH-E9X, MHC-6800.

SPECIFICATIONS

Tuner Section

System: FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.5 — 108 MHz
Antenna terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range:
AEP, UK model:
MW: 531—1,602 kHz
LW: 153—279 kHz
German model:
MW: 531—1,602 kHz
Italian model:
MW: 522—1,611 kHz
E, AUS, EA, JE, MY, SP model:
MW: 531 — 1,602 kHz (with the MW tuning interval set at 9 kHz)
MW: 530 — 1,710 kHz (with the MW tuning interval set at 10 kHz) (except the model for Middle East)
SW: 5.95 — 17.90 MHz
Antenna: AM loop antenna, External antenna terminals
Intermediate frequency: 450 kHz

Compact Disc Player Section

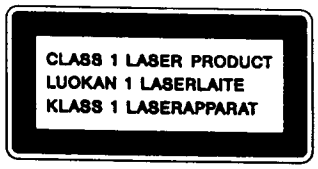
System: Compact disc digital audio system
Laser: Semiconductor laser
Wave length: 780 — 790 nm
Outputs: DIGITAL OPTICAL OUT (optical output connector): wave length 660 nm, output level –18 dBm

Design and specifications subject to change without notice.

Model Name Using Similar Mechanism	CDP-H6700/H7700
CD Mechanism Type	CDM13BA-5BD3
Optical Pick-Up Block Type	BU-5BD3

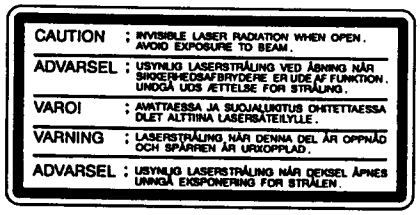
- AUS: Australian model
- EA : Saudi Arabia model
- JE : Tourist model
- MY : Malaysia model
- SP : Singapore model

For the United kingdom and European countries.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.


CAUTION : INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING : LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD.
ADVARSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

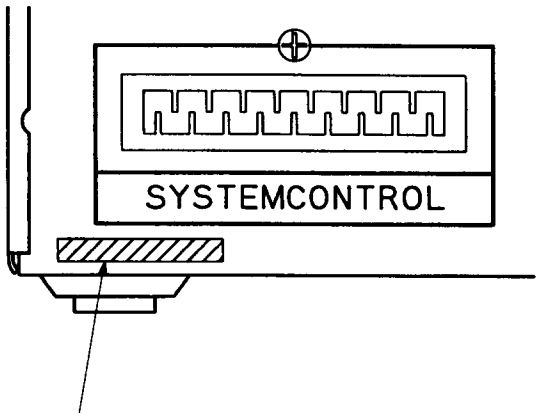
MICROFILM

TUNER CD PLAYER

SONY®

MODEL IDENTIFICATION

—BACK PANEL—



4-954-196-11 AE : AEP, UK model
4-954-196-21 E : E, AUS, EA, JE, MY, SP model
4-954-196-31 AE4: German (G) model
4-954-196-41 IT : Italian (IT) model

- AUS: Australian model
- EA : Saudi Arabia model
- JE : Tourist model
- MY : Malaysia model
- SP : Singapore model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

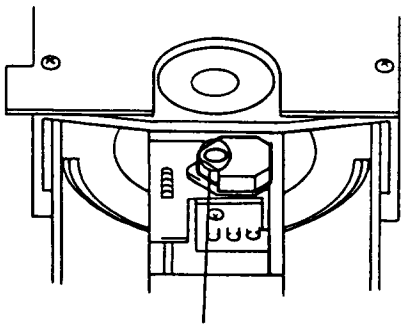
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential diference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

LASER DIODE AND FOCUS SERCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the following operation is performed while observing the objective lens.



- Confirm that laser beam is spread.
- Up and down motion of the objective lens. (3 times)

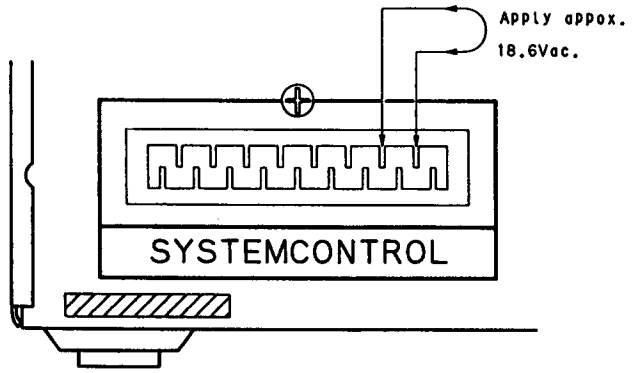
• POWER SUPPLY FOR SERVICING

This set does not have its own power unit. It is operated by power supply from the amplifier (TA-H6800E, TA-H6800N) used in this series. Therefore, when performing service such as continuity repair, connect the set with the amplifier (TA-H6800E, TA-H6800N).

• HOW TO FORCEFULLY TURN POWER ON

The equipment is not provided with any power switch. Therefore, power ON/OFF is controlled in the amplifier side. However, even without an amplifier, power is supplyable to the equipment according to the following methods provided any type of power is available, e.g. using a special jig or supplying the 4 types of voltages individually.

- To activate the compact disc unit, simultaneously press "+" switch and "▷▷| " switch. (The tuner unit will stop its function.)
- To activate the tuner unit, simultaneously press "−" switch and " |◁◁ " switch. (The CD unit will stop its function.)



〔Connection with the connector on "CDP/TC" unit of the jig (PFJ-1) for CDP-H4600, H6600) allows power supply to the set.〕

• SERVICE MODE FOR FL TUBE CHECK

By pressing "BAND" switch and "⏏ OPEN/CLOSE" switch at the same time, the FL display tube is totally lit.

• VOLTAGE MEASUREMENT OF THE TUNER/TCB011 BOARD

When performing voltage measurement of the TUNER and TCB011 boards, prepare the following jigs (extension cables) :

1) Extension cable for 4-pin application (J-8000-026-A)×3 lines.
2) Extension cable for 8-pin application (J-8000-027-A)×1 lines.

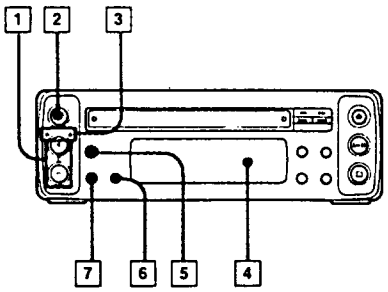
SECTION 2
GENERAL

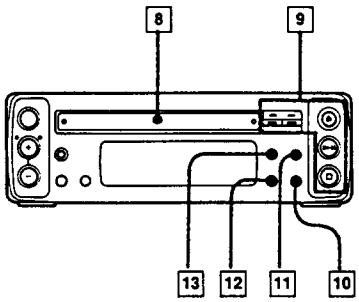
This section is extracted from instruction manual.

Parts Identification

Refer to the pages indicated in ( ) for use of the buttons.

A





Tuner/CD Player Section A

Tuner

1. +/– buttons (54, 56, 58, 60, 62)
2. BAND selector (54, 56, 60)
3. PRESET/TUNING indicators (54, 56, 60)
4. Display window
5. MODE button (54, 56, 60)
6. MEMORY button (58, 62)
7. STEREO/MONO (stereo/monaural) button (56)

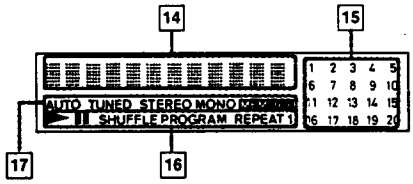
CD-player

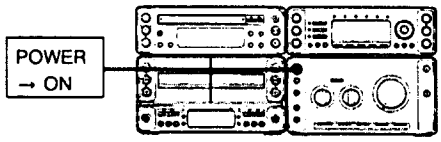
8. Disc table
9. CD operation buttons
   ⏏: Open/close of the disc tray
   ▷II : Play/pause
   ⏮◀◀ ▶▶⏭: Manual search (when kept depressed)/Automatic Music Sensor (when pressed)
   □: Stop
10. SHUFFLE button (46, 48)
11. CONTINUE button (46, 48, 50)
12. PROGRAM button (50, 100)
13. EDIT button (92, 96)

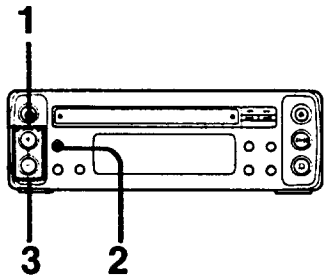
Display window B

14. Frequency and playing time display
15. CD selection numbers display
    Preset station number display
16. CD status display
17. Tuner status display

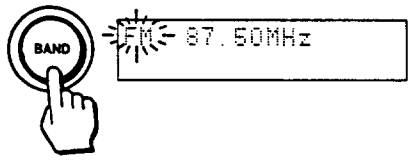
B



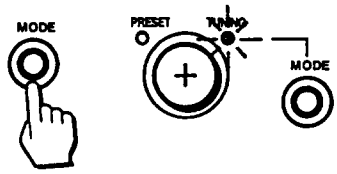




1



2



3

Radio Reception

Automatic tuning allows you to receive stations whose signal is strong enough. When the signal is too weak, use manual tuning.

Tuning in Automatically

This operation is not possible with the remote commander.

1 Press BAND repeatedly until the desired band appears.
As you press BAND, the band changes as follows:

Model for U.K. and Europe (except Germany and Italy):
FM → MW → LW

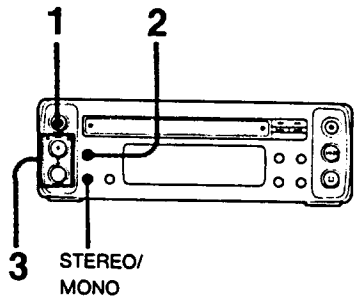
Model for Germany and Italy:
FM ⇄ MW

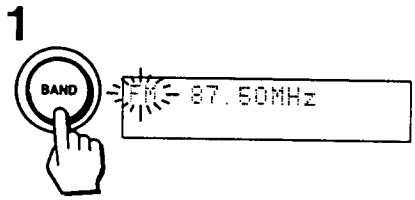
Model for other countries:
FM → MW → SW

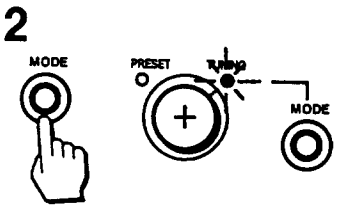
2 Press MODE so that the TUNING indicator lights up.

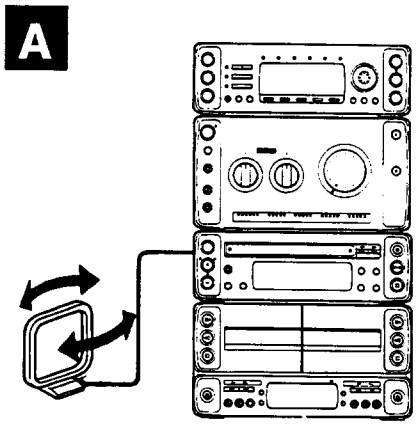
3 Keep + or – depressed for more than 1 second.
"AUTO" appears on the display and the unit tunes in a station automatically.

Repeat step 3 until the desired station appears.









Radio Reception

Tuning in Manually

This operation is not possible with the remote commander.

1 Press BAND repeatedly until the desired band appears.

2 Press MODE so that the TUNING indicator lights up.

3 Press + or – repeatedly until the desired station appears.

Indications on the display

TUNED: Appears when a station with sufficient signal strength is tuned in.
STEREO: Appears when an FM stereo program with sufficient signal strength is received.

Antenna adjustment A

For MW/LW/SW reception, find the best location for the supplied AM loop antenna.

When an FM program is noisy or hard to receive

Press STEREO/MONO so that "MONO" appears on the display. There will be no stereo effect, but the reception will be improved. Press the button again to restore the stereo effect.

Changing the MW tuning interval (except for the European and U.K. model and Middle Eastern model)

The MW tuning interval is preset at the factory to 9 kHz.
If you use the system where the frequency allocation system is different from the preset interval, change the interval as follows.

1 Turn on the power.
2 Tune in an MW station.
3 Turn off the power.
4 Turn the power back on while pressing TUNING +.

To reset the interval, follow the same procedure.

Important

When the interval is changed, stored stations will be erased from the memory.

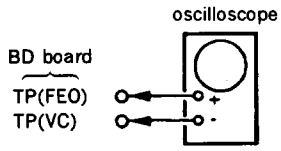
SECTION 3
ELECTRICAL ADJUSTMENTS

CD SECTION

Note :

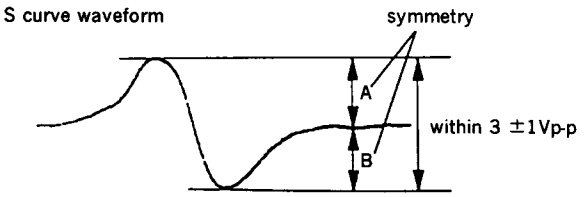
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

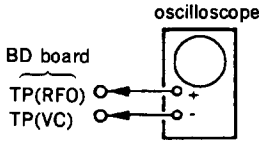
1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.



5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

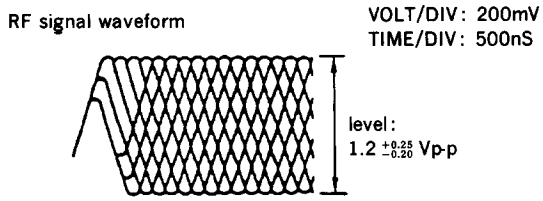


Procedure :

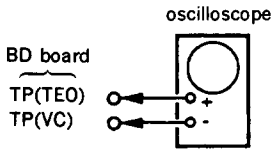
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

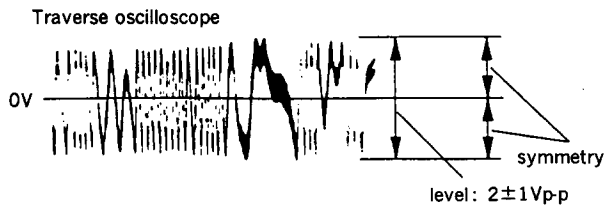


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

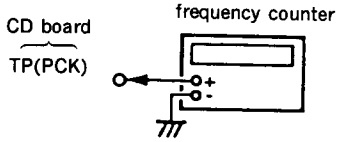


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

TUNER SECTION

Precautions in Repairing

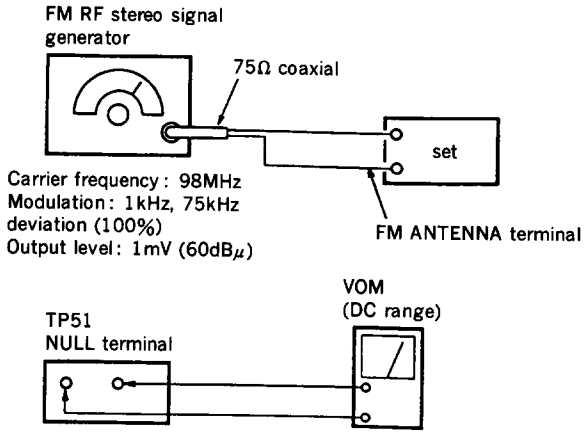
If the front end unit fails, it is difficult to repair the inner circuits, so replace the entire front end unit.

• FM SECTION

FM Discriminator Adjustment (NULL Adjustment)

Setting :

BAND : FM



Procedure :

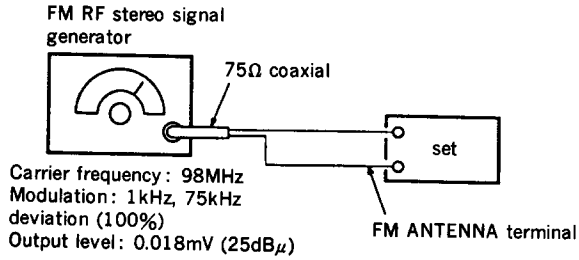
1. Tune the set to 98MHz.
2. Adjust IFT51 for 0V reading on the VOM.

Note : FM Tuning Level adjustment should be made after FM discriminator alignment.

FM Tuning Level Adjustment

Setting :

BAND : FM



Procedure :

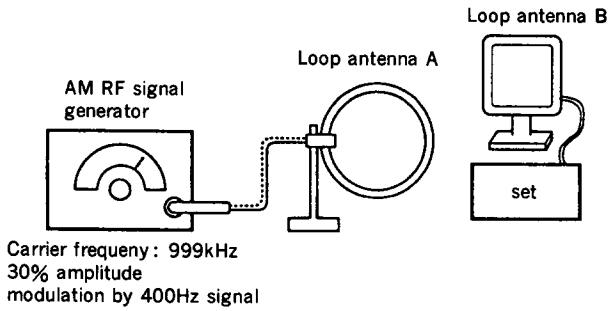
1. Tune the set to 98MHz.
2. Adjust RV52 so that the TUNED indicator goes on.

• AM SECTION

AM Tuning Level Adjustment

Setting :

BAND : MW



Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 58dBμ/m (0.8m V/m)
2. Tune the set to 999kHz.
3. Adjust the RV51 so that the TUNED indicator goes on.

• SW SECTION (EXCEPT AEP, UK, G, IT MODEL)

SW OSC Voltage Adjustment

Setting :

BAND : SW

Procedure :

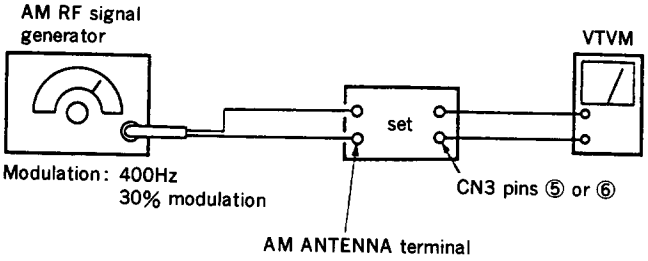
1. Connect digital voltmeter to front end FE1 pin ⑤ (VT) and ground.
2. Adjust for a following value reading on digital voltmeter.

Set frequency	Adjustment part	Reading on digital voltmeter
f min. 5.95MHz	T2	0.9 to 1.1V
f max. 17.9MHz	CV2	8.3 to 8.7V

SW Tracking Adjustment

Setting :

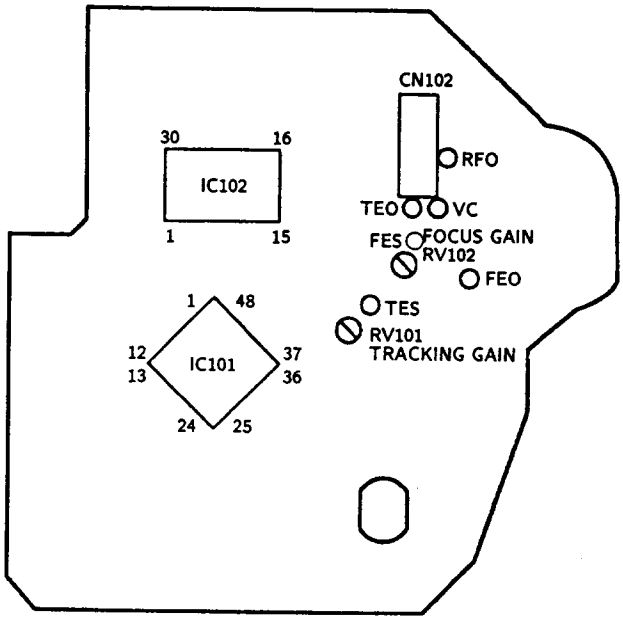
BAND : SW



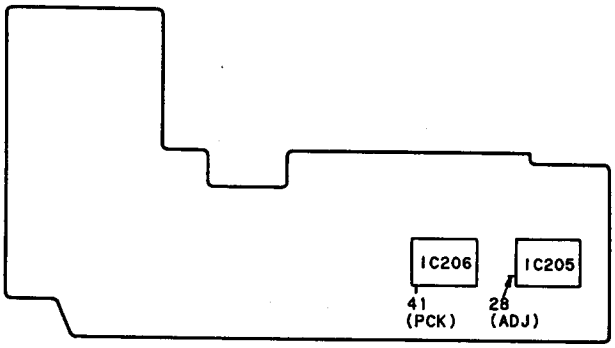
Adjust for a maximum reading on VTVM.	
7MHz	T1
17MHz	CV1

Adjustment Location :

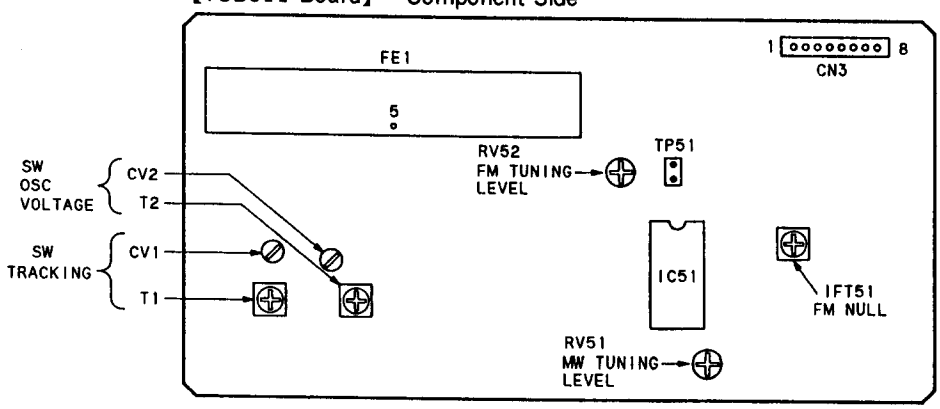
【BD Board】 —Conductor Side—



【CD Board】 —Conductor Side—

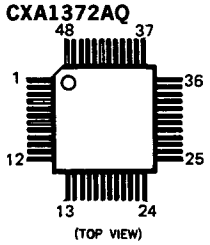


【TCB011 Board】 —Component Side—

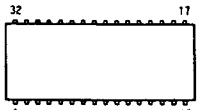


4-2. SEMICONDUCTOR LEAD LAYOUTS

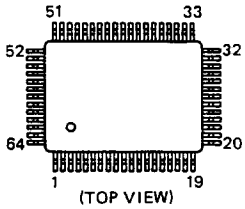
CXA1372AQ



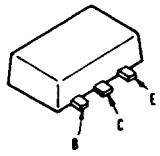
M5218AFP



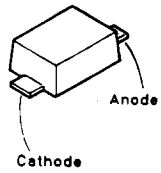
μPD75116GF-G38-3BE



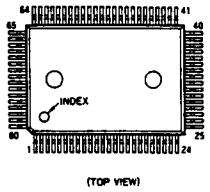
2SB798-DL
2SD999-CLCK



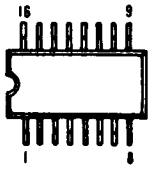
MA8056



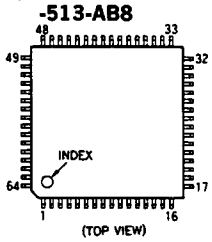
CXD2500BQ



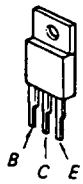
M5290FP
TC9215F-TP1



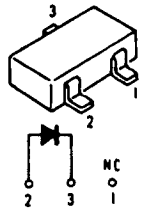
μPD78011GC-513-AB8



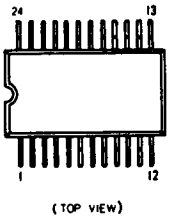
2SB1094-LK
2SD2012



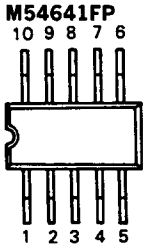
UZM10X
UZM11B
UZM3.9B
UZM4.7B



CXD2560M
LC7218M-TP



M54641FP



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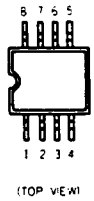

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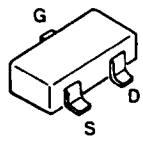

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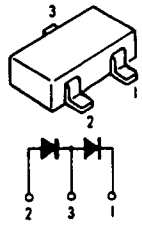

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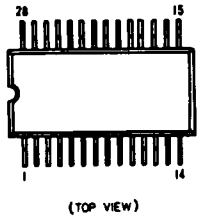

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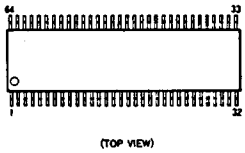

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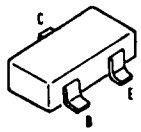
2SC3398
2SC3900
2SC4154-F
2SC4666B



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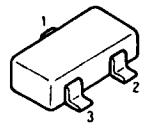

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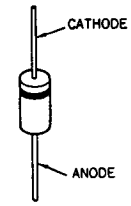
2 : ANODE
3 : ANODE

10E2



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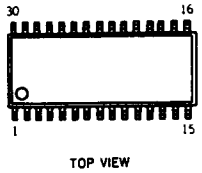
LA6532M



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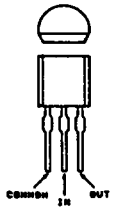

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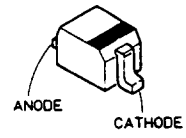

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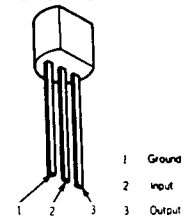

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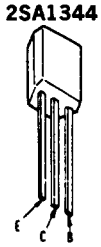

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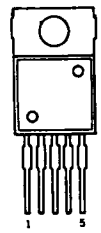

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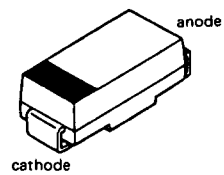
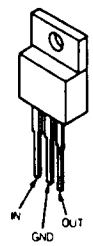


μPC2407HF



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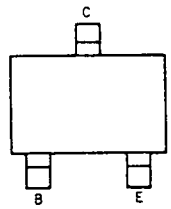
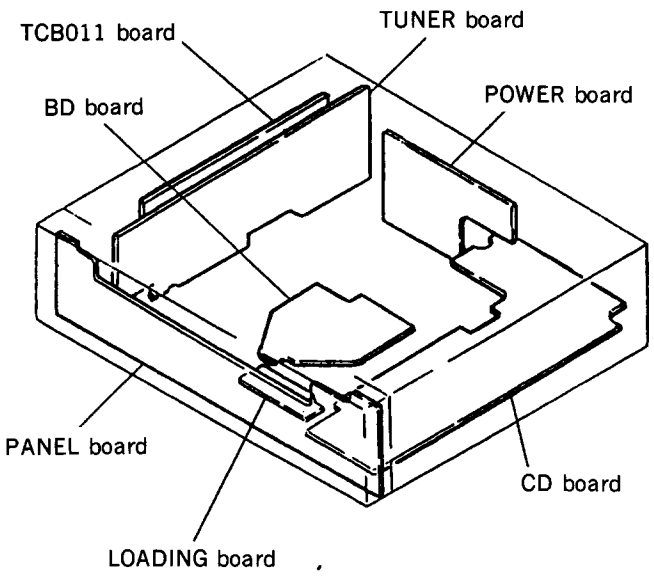
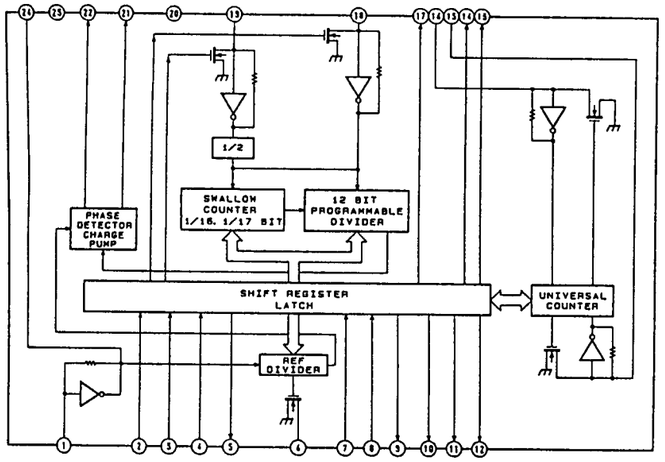


4-4. CIRCUIT BOARDS LOCATION

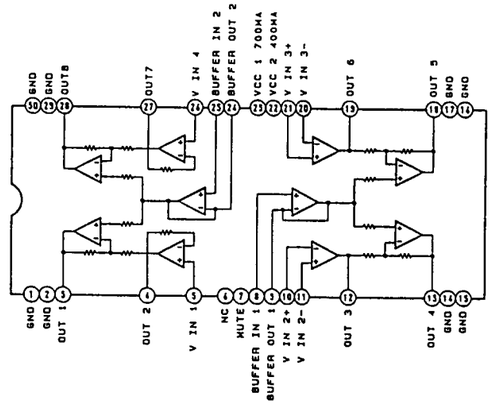


• IC Block Diagrams

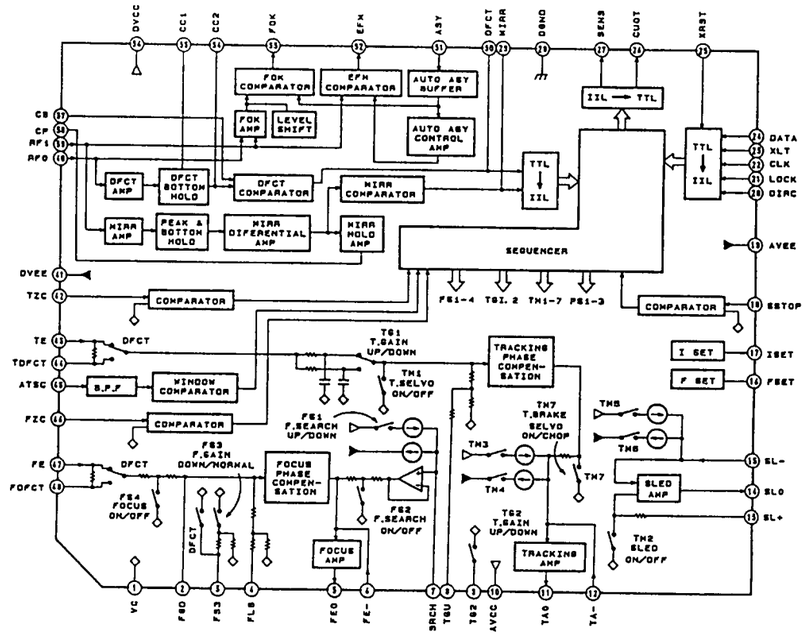
IC21 LC7218M



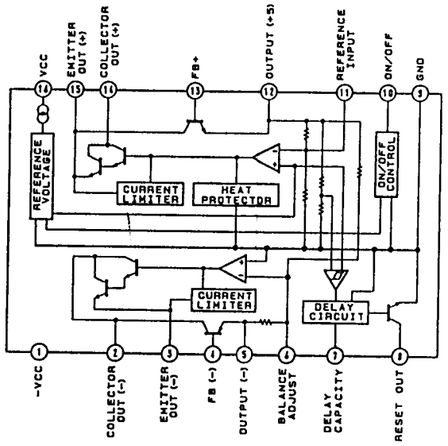
IC102 LA6532M



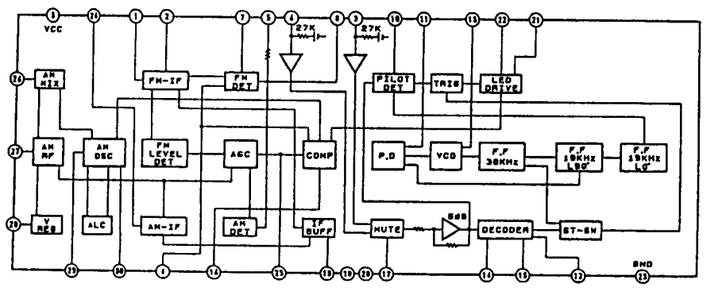
IC101 CXA1372AQ



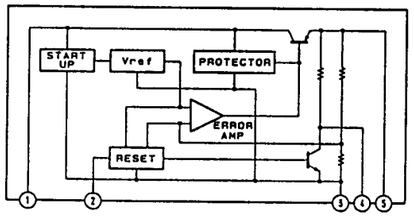
IC201 M5290FP



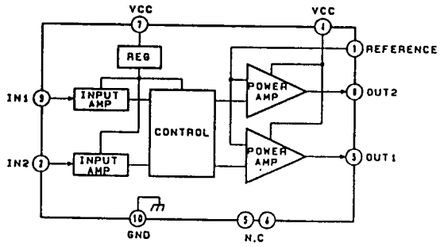
IC51 LA1851NM



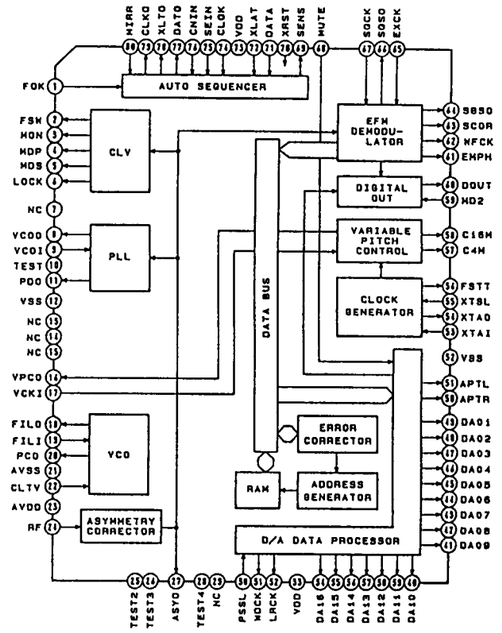
IC203 L78MR05



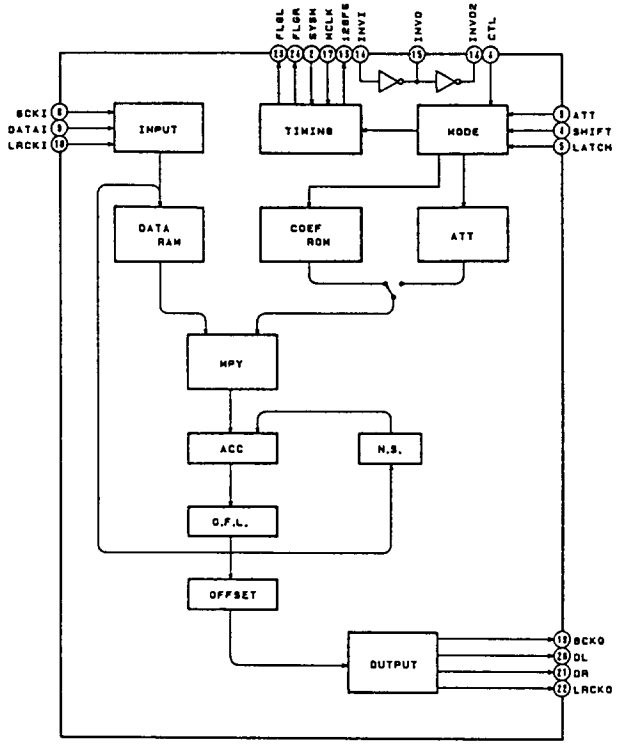
IC204 M54641FP



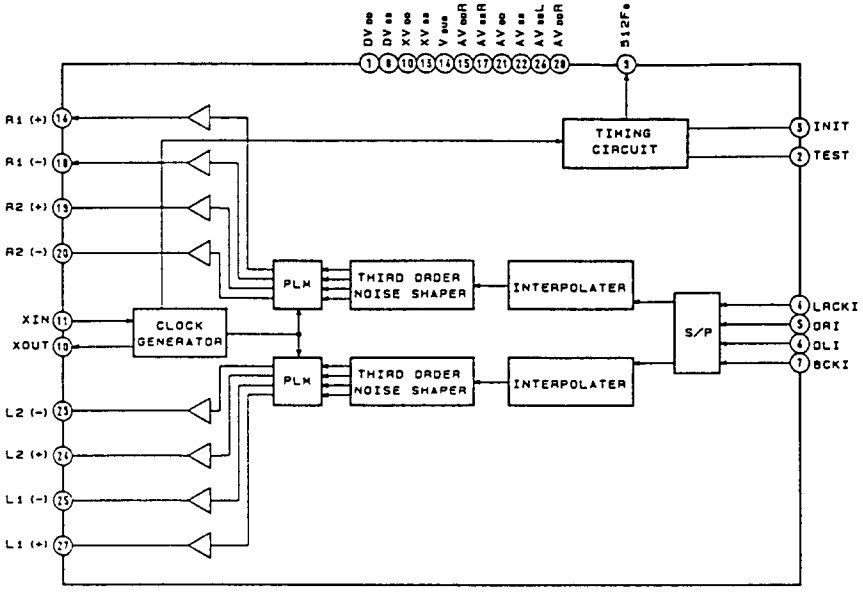
IC206 CXD2500BQ



IC207 CXD2560M



IC208 CXD2561BM



4-10. IC PIN DESCRIPTION

• IC104 tuner system controller (μPD78011GC-508-AB8)

Pin No.	Signal Name	I/O	Function
1	D0	I/O	Pin for data input/output from and to IC205 (CD system controller).
2	D1	I/O	Pin for data input/output from and to IC205 (CD system controller).
3	D2	I/O	Pin for data input/output from and to IC205 (CD system controller).
4	D3	I/O	Pin for data input/output from and to IC205 (CD system controller).
5	KEY REQ (CD)	O	Key data output timing. (CD)
6	CD BUSY Input	I	Input of CD state.
7	AU BUS Input	I	Audio bus input.
8	AU BUS Output	O	Audio bus output.
9	V_{SS}	—	Grounding pin.
10	Display Status (CD)	O	Not used in this set (open).
11	Display Status (ST)	O	Not used in this set (open).
12			Not used in this set (open).
13			Not used in this set (open).
14	IFOK	O	Not used in this set (open).
15	AM/FM	O	FM/AM changeover output. "L" for FM, "H" for AM.
16	AM Forced Monaural	O	Not used in this set (open).
17	AM	O	Not used in this set (open).
18	STEREO	I	STEREO input.
19	SIGNAL	I	SIGNAL input.
20	DATA Input	I	Data input from IC21 (PLL).
21	DATA Output	O	Data output to IC21 (PLL).
22	CLOCK	O	CLOCK output to IC21 (PLL).
23	CE	O	CE output to IC21 (PLL).
24	V_{SS}	—	Grounding pin.
25			Not used in this set (open).
26			Not used in this set (open).
27	LED (TUNING)	O	Tuner "+"/"−" key mode LED output.
28	LED (PRESET)	O	Tuner "+"/"−" key mode LED output.
29	Analog Bus Control	O	Analog bust control output to IC102 (TC9215F-TP1).
30	POWER	O	Power output. "L" for ON, "H" for OFF.
31	MUTE	O	Muting output. "L" for ON, "H" for OFF.
32			Not used in this set (open).
33	IF −50K	I	IF offset input.
34	IF +50K	I	IF offset input.
35	RESET	I	Reset input.
36	BACK UP	I	Backup input.
37	DPCLK (CD)	I	CD display data timing input.
38	CLOCK	O	CLOCK output to IC106 (MEMORY).
39	DATA	I/O	Data input/output from and to IC106 (MEMORY).
40	V_{DD}	—	Power pin (+5V).
41	X2		Main clock.
42	X1	I	Main clock (8.38MHz).
43	GND	—	Grounding pin.

Pin No.	Signal Name	I/O	Function
44	XT2	—	Not used in this set (open).
45	GND	—	Grounding pin.
46	GND	—	Grounding pin.
47	Key Input	I	Key input.
48	Key Input	I	Key input.
49	Key Input	I	Not used in this set (+5V).
50	Key Input	I	Not used in this set (+5V).
51	GND	—	Grounding pin.
52	GND	—	Grounding pin.
53	GND	—	Grounding pin.
54	GND	—	Grounding pin.
55	AV_{DD}	—	Power pin (+5V).
56	AV_{REF}	—	Power pin (+5V).
57	GND	—	Grounding pin.
58	SDATA	O	Data output to IC601 (FL driver).
59	SCK	O	CLOCK output to IC601 (FL driver).
60	CS	O	CS output to IC601 (FL driver).
61	RESET	O	Reset output to IC601 (FL driver).
62	Destination	I	Destination discrimination input
63	Destination	I	Destination discrimination input
64	Destination	I	Destination discrimination input

• IC205 CD system controller (μPD75116GF-G38-3BE)

This controller provides control of the CD unit IC101 (RF signal processing, servo), IC102 (DSP, digital filter) and loading, data exchange with IC104 (system controller), and audio bus input.

Pin No.	Signal Name	I/O	Function
1	DFCTSW	O	IC101 (CXA1372Q) DEFECT circuit ON/OFF switching output.
2	DPCLK	O	Display data load clock output to IC104 (μPD76011CC-506-AB6).
3	INSW	I	S292 (loading-in switch) input.
4	OUTSW	I	S291 (loading-out switch) input.
5	LODIN	O	Output used to rotate M291 (loading motor) in the loading-in direction. *1
6	LODOUT	O	Output used to rotate M291 (loading motor) in the loading-out direction. *1
7	RESET	I	System reset input.
8	X2	I	Clock input.
9	X1	I	Clock input. (4MHz)
10	LDON	O	Optical pickup laser diode ON/OFF switching output. "H" for ON.
11	PRGL	O	Latch output to IC207 (digital filter).
12	XLT	O	Serial data latch output to IC206 (CXD2500BQ).
13	SQCLK	O	Subcode Q data read clock output to IC206 (CXD2500BQ).
14			Not used in this set (open).
15			Not used in this set (open).
16			Not used in this set (open).
17	ANASW	O	IC211 (TC9215F-TP1) analog bus control signal output.
18	ICSW	I/O	CD power control pin. OFF by 0 output, ON by input (high impedance state).
19			Not used in this set (open). (The same function as ICSW.)

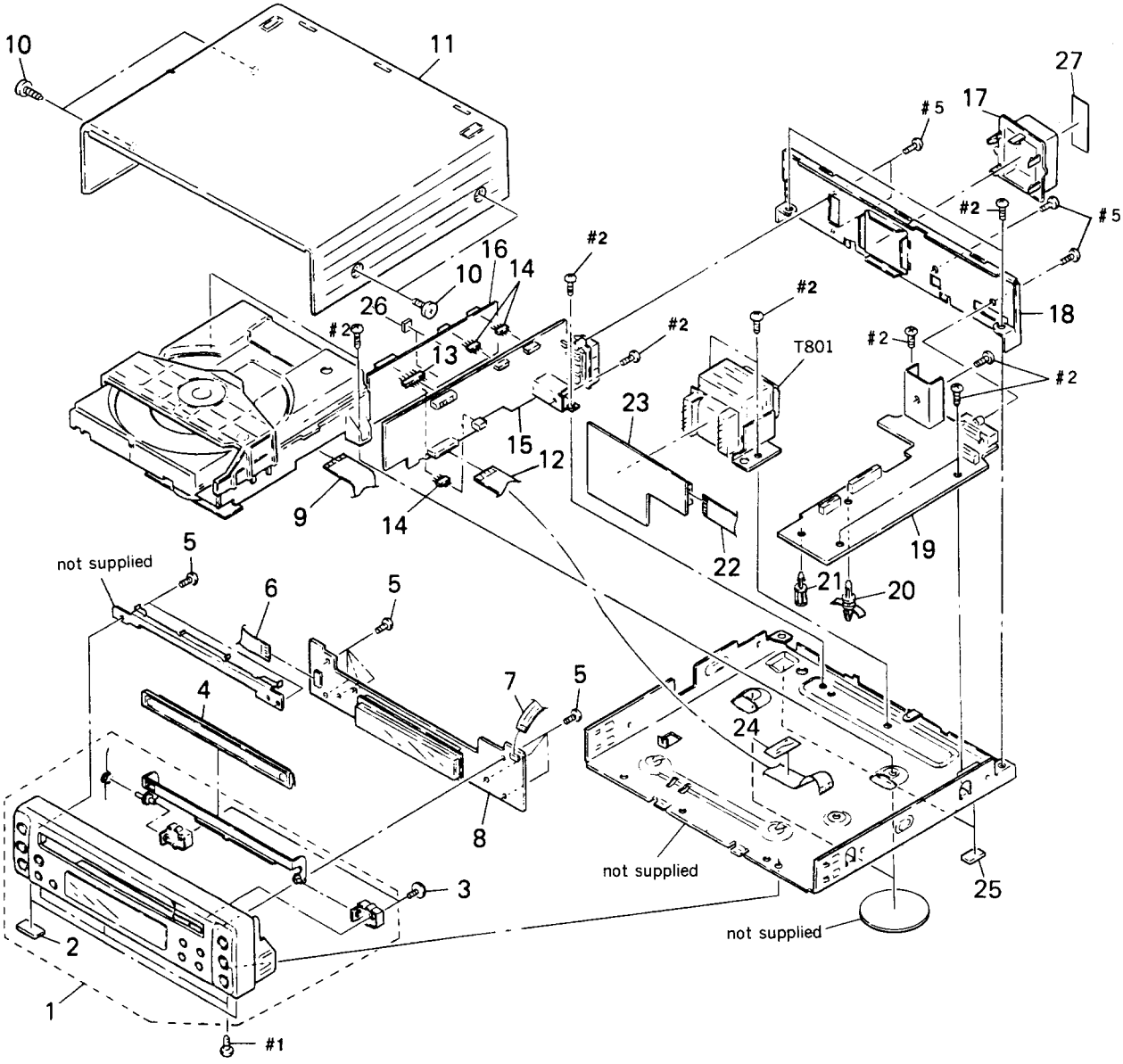
Pin No.	Signal Name	I/O	Function
20			Not used in this set (open). (The same function as ICSW.)
21			Not used in this set (open). (The same function as ICSW.)
22	IVICSW	I/O	CD power control pin. OFF by input (high impedance state), ON by 0 output.
23			Not used in this set (open). (The same function with IVICSW.)
24			Not used in this set (open). (The same function with IVICSW.)
25			Not used in this set (open). (The same function with IVICSW.)
26	Vss		Grounding pin.
27	SENSE	I	SENSE input from IC206 (CXD2500BQ).
28	ADJ	I	CD test mode input 1, "L" to inhibit GFS check to allow the spindle to rotate even if the frame sync does not appear during PLAY, PAUSE and SEARCH.
29	KEYRQ	I	Key code fetch trigger for key code from IC104 (μPD78012GC-508-AB8). (One key allows four falls.)
30	BSIN	I	Audio bus input.
31	ADKEY	I	AD key input pin.
32	ADSEL	I	AD key input permission select pin.
			It is assumed that electrical adjustment is made with a CD only (without tuner microcomputer). (Usually 5V pull-up)
33			Not used in this set (GND).
34			Not used in this set (GND).
35			Not used in this set (GND).
36			Not used in this set (GND).
37	SUBQ	I	Subcode Q data input from IC206 (CXD2500BQ).
38	GFS	I	GFS signal input from IC206 (CXD2500BQ). "L" for NG, "H" for OK.
39	FOK	I	Focus OK signal input from IC101 (CXA1372Q). "H" for OK.
40	AFADJ	I	CD test mode input 2.
41	DACSW	I	IC208 (D/A converter) select pin. Set DACSW to 1 to select CXD2561. Set DACSW to 0 to select CXD2562.
42	DATAA	O	Serial data output to IC206 (CXD2500BQ), IC207 (CXD2560M).
43	CLK	O	Serial data load clock output to IC206 (CXD2500BQ), IC207 (CXD2560M).
44	SCOR	I	Subcode sync S0 plus S1 detection input from IC206 (CXD2500BQ).
45	RSTOUT	O	Reset output to peripheral ICs.
46			Not used in this set (open).
47			Not used in this set (open).
48			Not used in this set (open).
49			Not used in this set (open).
50			Not used in this set (open).
51			Not used in this set (open).
52			Not used in this set (open).
53			Not used in this set (open).
54			Not used in this set (open).
55			Not used in this set (open).
56	CDBUSY	O	CD ON sets this "H".
57	NC	—	Not used in this set (+5V).
58	V_{DD}	—	Power pin (+5V).
59	DPDAT 3	I/O	Data input from and display data output to IC104 (μPD78012GC-AB8).
60	DPDAT 2	I/O	Data input from and display data output to IC104 (μPD78012GC-AB8).
61	DPDAT 1	I/O	Data input from and display data output to IC104 (μPD78012GC-AB8).
62	DPDAT 0	I/O	Data input from and display data output to IC104 (μPD78012GC-AB8).

Pin No.	Signal Name	I/O	Function
63	AMUTE	O	Muting control output. "H" for muting.
64	BSOUT	O	Audio bus output pin.

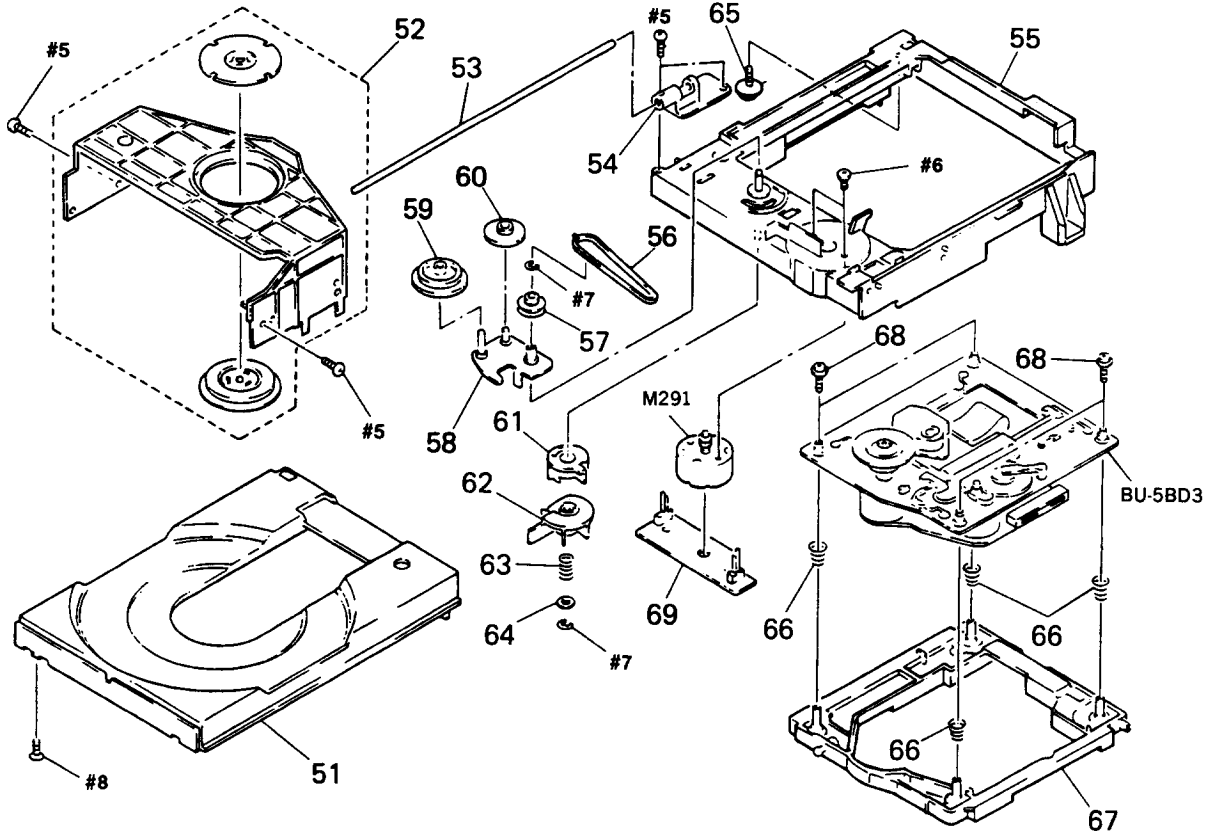
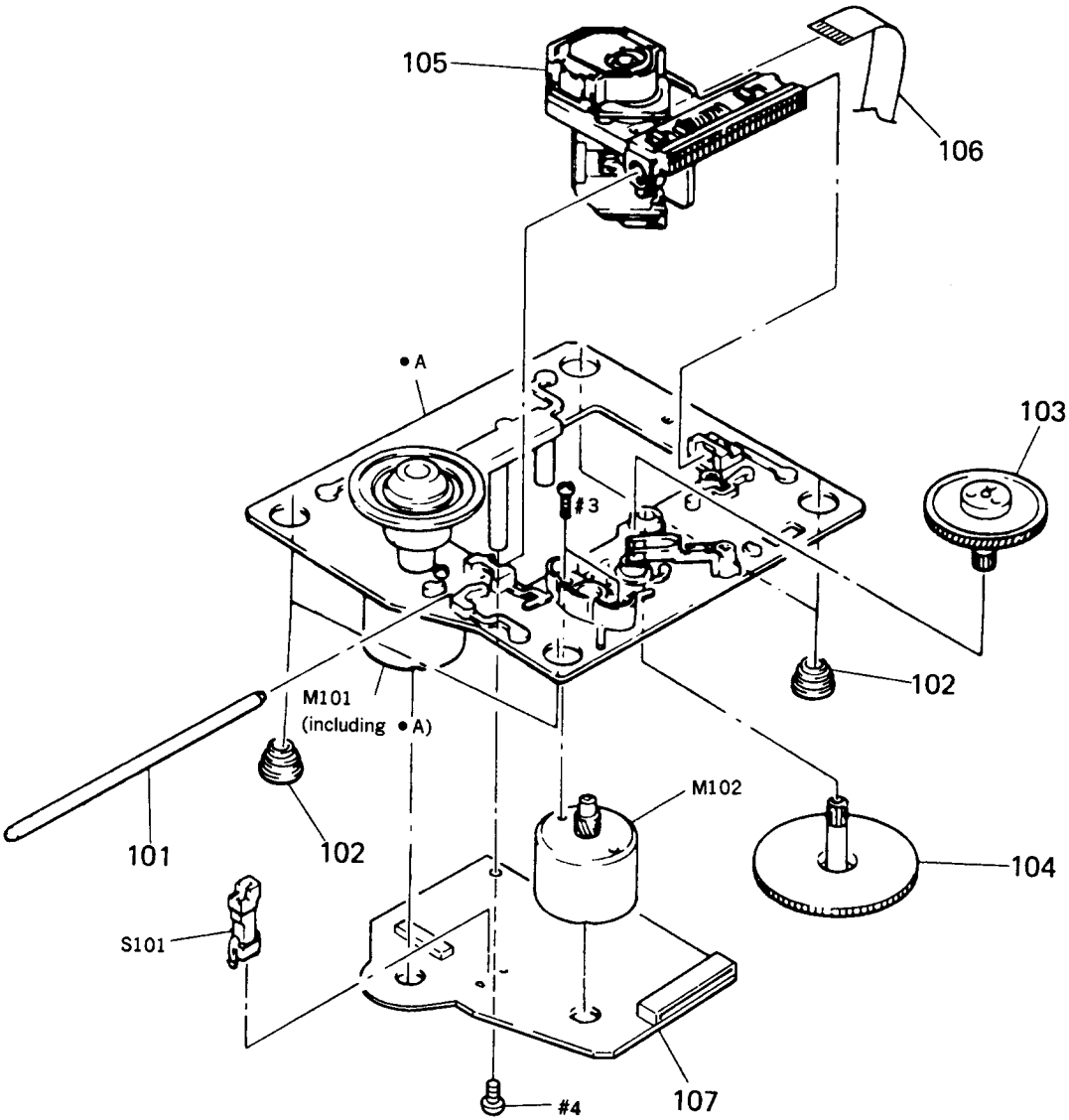
*1 Loading motor control

	IN	OUT	BRAKE
LOG OUT ⑥	L	H	H
LOG IN ⑤	H	L	H

5-1. CHASSIS SECTION



5-2. CD MECHANISM SECTION (CDM13B-5BD3)



5-3. OPTICAL PICK-UP BLOCK (BU-5BD3)